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Prerequisite Newsletters/ None

Supplements

IBM Virtual Machine Facility/370:
Data Areas and Control Block Logic

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This Technical Newsletter contains replacement pages for <u>VM/370 Data</u>
<u>Areas and Control Block Logic</u> to support Release 6 PLC 4 of IBM Virtual
Machine Facility/370.

Before inserting any of the attached pages into the <u>VM/370 Data Areas</u> and <u>Control Block Logic</u> read <u>carefully</u> the instructions on this cover. They indicate when and how you should insert pages.

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Changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

Summary of Amendments

This Technical Newsletter incorporates changes reflecting the 4331 Communications Adapter Synchronous Data Link Control, CP Dump Services for Virtual Machine, CMS hooks for VM/Interactive Problem Control System Extension Program Product, Channel-Set Switching, Multiple Service Record Files, 3031 Attached Processor Extended Control Program, and 3880 DASD controller support.

Note: Please file this cover letter at the back of the base publication to provide a record of changes.

IBM Corporation, Publications Development, Department D58, Building 706-2, PO Box 390, Poughkeepsie, New York 12602

Systems

IBM Virtual Machine Facility/370: Data Areas and Control Block Logic

Release 6 PLC 4

This publication, together with the VM/370 System Logic and Problem Determination Guide, Volumes 1, 2, and 3, is intended for use by system programmers responsible for updating VM/370. This publication contains descriptions of the major data areas and control blocks used by three of the components of VM/370, the Control Program (CP), the Conversational Monitor System (CMS), and the Remote Spooling Communications Subsystem (RSCS).

To use this publication effectively and to understand it thoroughly, the following publications are prerequisite:

IBM System/370 Principles of Operation
Order No. GA22-7000
IBM OS/VS, DOS/VS, and VM/370 Assembler Language,
Order No. GC33-4010



Fourth Edition (March 1979)

This is a major revision of, and obsoletes, SY20-0884-2 and Technical Newsletters SN25-0413, SN25-0453, and SN25-0466. This edition (SY20-0884-3) together with Technical Newsletter SN25-0497, dated August 1, 1979, applies to Release 6 PLC 4 (Program Level Change) of the IBM Virtual Machine Facility/370, and to all subsequent releases unless otherwise indicated in new editions or Technical Newsletters.

Technical changes and additions to text and illustrations are indicated by a vertical bar to the left of the change.

Changes are periodically made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest <u>IBM System/370 Bibliography</u>, Order No. GC20-0001, for the editions that are applicable and current.

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Preface

This publication contains descriptions of major data areas and control blocks used by the three major components of VM/370. The three components are:

- The Control Program (CP)
- The Conversational Monitor System (CMS)
- The Remote Spooling Communications Subsystem (RSCS)

There are three sections and five appendixes, as follows:

- "Section 1. CP Data Areas and Control Blocks" contains information about CP data areas and control blocks.
- "Section 2. CMS Data Areas and Control Blocks" contains information on CMS data areas and control blocks.
- "Section 3. RSCS Data Areas and Control Blocks" contains information on RSCS data areas and control blocks.
- "Appendix A. CP and RSCS Equate Symbols" contains assembler language equate symbols used by CP and RSCS to reference data.
- "Appendix B. RSCS Control Areas" contains RSCS control areas that define constants and variables used during execution.
- "Appendix C. RSCS Request Elements" contains RSCS request elements that are the tables used by RSCS for task-to-task communication.
- "Appendix D. CMS Equate Symbols" contains CMS equate symbols.
- "Appendix E. Data Areas and Control Block References" contains information on the modules that reference data areas and control blocks.

OTHER VM/370 DATA AREAS AND CONTROL BLOCKS

Some data areas and control blocks that affect VM/370 service and support programs are not included in this publication. Information on these data areas and control blocks can be found in the IBM Virtual

Machine Facility/370: Service Routines Program Logic, Order No. SY20-0882.

RELATED PUBLICATIONS

This publication should be used in conjunction with:

IBM Virtual Machine Facility/370:

System Logic and Problem Determination Guide,

<u>Volume 1 Control Program (CP)</u>, Order No. SY20-0886

<u>Volume 2 Conversational Monitor System</u> (CMS), Order No. Sy20-0887

<u>Volume 3 Remote Spooling Communication</u> <u>Sybsystem (RSCS)</u>, Order No. SY20-0888

System Programmer's Guide, Order No.
GC20-1807

Glossary and Master Index, Order No.
GC20-1813.

For information on how to use the fourth component -- interactive problem control system -- and its facilities, the hardware and software support personnel or the installation system programmer should use:

IBM Virtual Machine Facility/370: Interactive Problem Control System (IPCS) User's Guide, Order No. GC20-1823.

HOW TO USE THIS PUBLICATION

This publication addresses and describes the major control blocks associated with CP, CMS, and RSCS. Generally, data areas, or scratch areas that are created and exist only during the execution of a particular module are not described in this publication. In this publication, the data areas and control blocks are arranged in alphabetical order by DSECT name.

The CMS and RSCS components operate under control of CP. Each component creates, updates, and erases its own control blocks and data areas.

Control blocks and data areas are blocks of related information applicable to one or more system functions. They are usually defined by the DSECT instruction. The blocks can reflect current status, history information, or combinations of both, applicable to VM/370 functions. Control blocks and data areas provide the linkage and information for the user, the hardware, and the programs to work as one entity for the successful execution of a job, task, or process.

For every data area or control block, a statement is given that defines the use of the data area or control block. This statement is followed by a formatted block showing the fields defined in the data area or control block and the displacement into the DSECT of that field.

The formatted blocks for CP and CMS control areas are 8 bytes wide, showing two fullwords per line. RSCS control blocks are 4 bytes wide.

<u>Note</u>: One exception to this width rule is the formatting for PSA, where the control areas are given in 16-byte width.

When the name of a field is too large to fit into the formatted line, a pointer to the definition of the field is used instead of the name of the field. This pointer usually takes the form A*1, A*2, etc. When there is a particularly large field (one that uses more than three or four lines of the formatted block), ellipses are used in the block to show that the displacement of this field is larger than can be shown in the block.

The use of slashes in a field indicates that the field is reserved for IBM's use.

The formatted block is followed by listing-related information such as the hexadecimal displacement of the field into the DSECT, the name of the field and its definition in the listing, and a brief description of the contents and meaning of the field.

The following terms in this publication, refer to the indicated support devices:

- "2305" refers to IBM 2305 Fixed Head Storage, Models 1 and 2.
- "270x" refers to IBM 2701, 2702, and 2703 Transmission Control Units or the Integrated Communications Adapter (ICA) on the System/370 Model 135.
- "2741" refers to the IBM 2741 and the 3767, unless otherwise specified.
- "3270" refers to a series of display devices, namely, the IBM 3275, 3276, 3277, and 3278 Display Stations. A specific device type is used only when a distinction is required between device types.

Information about display terminal usage also applies to the IBM 3138, 3148, and 3158 Display Consoles when used in display mode, unless otherwise noted.

Any information pertaining to the IBM 3284 or 3286 Printer also pertains to the IBM 3287, 3288, and 3289 printers, unless otherwise noted.

- "3330" refers to the IBM 3330 Disk Storage, Models 1, 2, or 11; the IBM 3333 Disk Storage and Control, Models 1 or 11; and the 3350 Direct Access Storage operating in 3330/3333 Model 1 or 3330/3333 Model 11 compatibility mode.
- "3340" refers to the IBM 3340 Disk Storage, Models A2, B1, and B2, and the 3344 Direct Access Storage Model B2.
- "3350" refers to the IBM 3350 Direct Access Storage Models A2 and B2 in native mode.
- "370x" refers to IBM 3704 and 3705 Communications Controllers.
- The term "3705" refers to the 3705 I and the 3705 II unless otherwise noted.

Contents

The entries in this Table of Contents are accumulative. They list additions to this publication by the following VM/370 System Control Program Products:

- VM/370 Basic System Extensions, Program Number 5748-XX8
- VM/370 System Extensions, Program Number 5748-XE1

However, the text within the publication is not accumulative; it only relates to the one SCP program product that is installed on your system. Therefore, there may be topics and references listed in this Table of Contents that are not contained in the body of this publication.

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Summary of Amendments for SY20-0884-3 as updated by SN25-0497 VM/370 Release 6 PLC 4

ADDITIONAL SUPPORT BY VM/370

New: Program and Documentation

The following list includes some of the units and facilities implemented and supported by VM/370:

- Communications Adapter Synchronous Data Link Control
- CP Dump Services for Virtual Machines
- CMS Hooks for the VM/Interactive Problem Control System Extension Program Product
- Channel-Set Switching
- Multiple Service Record Files
- 3031 Attached Processor Extended Control Program Support
- 3880 DASD Controller

MISCELLANEOUS

New: Documentation Only

Minor technical changes as noted on pages affected.

Changed: Documentation Only

Block diagrams, as needed, to show additional and new displacements.

Summary of Amendments for SY20-0884-3 VM/370 Release 6 PLC 1

3800-1 PRINTER SUPPORT

New: Documentation and Program Support

VM/370 now offers support for the 3800-1 unit as a dedicated virtual machine printer. The 3800-1 is also supported as a VM/370 spooling device.

3850-2 VIRTUAL MACHINE MSS SUPPORT

New: Program and Documentation

VM/370 now supports the 3850-2 MSS to permit most operating systems that are running in the virtual machine environment access to data on MSS virtual volumes.

PASSWORD-ON-THE-COMMAND-LINE SUPPRESSION

New: Program Feature

VM/370 now supports the suppression of the entering of passwords on the command line for LOGON, AUTOLOG, and LINK. The intent is to force passwords to be typed upon a mask. The new support is specified via the SYSJRL macro in DMKSYS. It is optional and must be implemented at system generation time. Privilege class A users can use the JOURNAL operand of either the SET or QUERY commands.

MULTIPLE ALTERNATE CONSOLE SUPPORT

New: Program and Documentation

VM/370 supports the specification of multiple alternate consoles at system generation time.

MONITOR ENHANCEMENTS SUPPORT

New: Program and Documentation

VM/370 supports the enhancement to the Monitor module which permits the analyst the option to specify periodic closing

of the active Monitor spool file frequently enough to support real time data reduction and display.

SECURITY JOURNALING SUPPORT

New: Program Feature

VM/370 now supports the journaling of LOGONs and AUTOLOGS specifying invalid passwords and the journaling of all linkages. This is accomplished via the generation of type 04, 05, and 06 accounting records. The new support is specified in the SYSJRL macro in DMKSYS.

4331 AND 4341 PROCESSOR SUPPORT

New: Program and Documentation

VM/370 supports 4331 and 4341 processors offering compatibility with the new model IDs as well as the S/370 RAS funciton subset.

MISCELLANEOUS

New: Documentation and Program

The following features and enhancements are now supported by VM/370.

- 3203-5 Unit
- Special Messages facility
- Trace Table size as a system generation option
- Modification of Shared Segment handling
- 3031 Alternate Processor
- 12 and 16 Megabyte Processors
- Directory hooks

x IBM VM/370 Data Areas and Control Blocks Logic

Summary of Amendments for SY20-0884-2 as updated by SN25-0461 VM/370 Release 5 PLC 12

VARY PROCESSOR SUPPORTED BY VM/370

New: Documentation and Program Support

When a system has been generated for attached processor operations, use of a new command, VARY PROCESSOR ONLINE/OFFLINE, facilitates the transition to or from uniprocessor mode on the main processor. This command can be used to vary a specified processor offline or online without any serious disruption to system users.

DDRREC: RECONFIGURATION MACRO

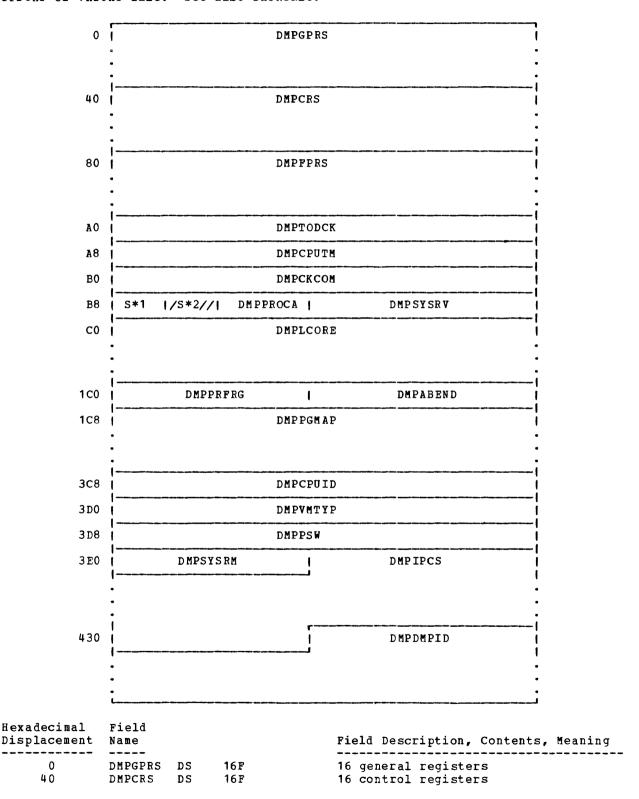
DDRREC is used in the SVC 76-initiated error recording process for type 60 DASD dump restore (DDR) dynamic device reallocation records. The reallocation records contain the replacement of the virtual "FROM" and "TO" control unit addresses (CUA) by the real addresses of the real DASD devices.

0	DDRKEYN	D*1	1/D*2/1	/D*3	/1/	'D*4/1/	/DDRSPE1//////
8	DDRDTEN		1	-	DD	RTMEN	
10			DDRCF	D			
18			DDRJC	В			
20	DDRVOL1					1	DDR VOL 2
28	DDRVOL2	(cont.) 1	D*5	ı	DDRCU	A1
30	DDRDEV1		1	D*6	ı	DDRCU	A2
38	DDRDEV2		. [

Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
0	DDRKEYN	DS	1 H		Type and operating system
2 3	DDRSWS1	DD	1C	D *1	Switch byte
	DDRSWS2	DS	1C	D*2	Reserved for IBM use
4	DDRSWS3	DS	1C	D*3	Reserved for IBM use
5	DDRRECNT	DS	1C	D*4	Reserved for IBM use
6	DDRSPE1	DS	1 H		Reserved for IBM use
8	DDRDTEN	DS	1F		Date
С	DDRTMEN	DS	1 F		Time
10	DDRCPID	DS	2F		Processor identification and model number
	Device D	<u>ependen</u>	t Data		
18	DDRJOB	DS	_8 <u>x</u>		Job using FROM device
20	DDRVOL1	DS	6 X		Volume serial FROM device
26	DDRVOL2	DS	6 X		Volume serial TO device
2C	DDRDEVP1	DS	1 X	D*5	Device identification of FROM DASD
2D	DDRCUA1	DS	3 X		Primary CUA of FROM device
30	DDRDEV1	DS	4 X		Device type FROM device
34	DDRDEVP2	DS	1 X	D*6	Device identification TO DASD
35	DDRCUA2	DS	3 X		Primary CUA of TO device
38	DDRDEV2	DS	4 X		Device type of TO device
	DDRSIZE	EQU	(*-DDRRE	C)	DDR record size

DMPINREC: DUMP FILE INFORMATION RECORD

DMPINREC retains vital system register and storage location values necessary for the CPDUMP or VMDUMP file. See also DMPKYREC.



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Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
80	DMPFPRS	DS	4D		Four floating-point registers (if floating-point feature is installed on machine)
A O	DMPTODCK	DS	1D		Time-of-day clock
A 8	DMPCPUTM	DS	1D		Processor timer
в0	DMPCKCOM	DS	1D		Time-of-day clock comparator
В8	DMPFLAG	DS	1 X	S *1	
	<u>Bits def:</u> HALFPAGE		n DMPFLAG		When on, last record in DUMP file is 2K
В9	DMPRSV1	DS	1 X	S*2	Reserved for IBM use
BA	DMPPROCA		1 H		Abending processor address
BC BC	DMPSYSRV		1F		System generated storage size
CÔ	DMPLCORE		256X		Absolute storage locations 0 through 255
100	DMPPRFRG		1F		Prefix register
1C4	DMPABEND		1F		Abend code for failing processor
1C8	DMPPGMAP		4096B		Bit map indicating which pages appear in the DUMP file (each bit represents a 4K block)
I 3C8	DMPCPUID	DS	1D		Processor identification from real processor
3D0	DMPVMTYP		1 D		Guest virtual machine type obtained from FORMAT operand of VMDUMP command
3D8	DMPPSW	DS	1 D		PSW of virtual machine that issued VMDUMP command
3E0	DMPSYSRM	DS	1F		Hardware size of the system on which VM/370 is running
3E4	DMPIPCS	DS	20F		VM/IPCS extension program product use
434	DMPDMPID	DS	CL100		DUMPID operand of the VMDUMP command

IOBLOK: I/O TASK CONTROL BLOCK

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IOBLOK contains information required to perform I/O operations. The I/O request initiator for the I/O operation is either a CP-initiated or virtual machine-initiated event. There are five pointers to the IOBLOK: RCHFIOB field of the RCHBLOK; RCHFIOB field of the RCUBLOK, RDEVAIOB field of the RDEVBLOK, RDEVFIOB field of the RDEVBLOK,

0	IOBRADD I*1 I*2	•	IOBLINK
8	IOBFPNT	l	IOBBPNT
10	IOBCYL IOBVADD	1	IOBMISC
18	IOBUSER	1	IOBIRA
20	IOBCAW	1	IOBRCAW
28	IOB	CSW	
30	IOBIOER	1	IOBMISC2
38	I*3 I*4 I*5 RSV2	1	IOBCUBSY

Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
0 2	IOBRADD IOBFLAG	DS DS	1 H 1 X	I*1	Real device address for SIO IOBLOK flags
	IOBCP IOBRSTRT IOBSPLT IOBPAG IOBRELCU IOBERP	EQU EQU EQU EQU	n IOBFLAG X'80' X'40' X'20' X'10' X'08' X'08' X'04' X'02' X'01'		CP-generated I/O operation Restarted operation - IOBRCAW DASD - CP split seek operation IOBLOK created for paging I/O Control unit released at initiation I/O task is under control of ERP I/O task has been reset I/O initiated via DIAGNOSE instruction
3	IOBSTAT	DS	1 X	I* 2	IOBLOK status
	IOBFATAL IOBFLT IOBPATHF IOBMINI IOBALTSK IOBCC3 IOBCC2 IOBCC1	EQU EQU EQU EQU EQU EQU EQU EQU	n IOBSTAT X*80* X*40* X*20* X*08* X*04* X*02* X*01*		Unrecoverable error in this I/O operation IOBLOK queued pending completion of a MSS cylinder fault Path is fixed, use IOBRADD value This is a mini-IOBLOK DASD channel program has seek to alternate track Processing CC 3, not available Processing CC 2, channel busy Processing CC 1, CSW stored
	IOBCC0	ΕQÜ	X • 0 0 •		Processing I/O interrupt

Hexadecimal Displacement	Field Name	Field Description, Contents, Meaning
4	IOBLINK DS 1F	Pointer for multipath IOBLOK chain
8	IOBFPNT DS 1F	Pointer to next IOBLOK in queue
C	IOBBPNT DS 1F	Pointer to previous IOBLOK in queue
	IOBMSIZE EQU (*-IOBLOK)/8	Multiple path IOBLOK size in doublewords (X°02°)
10	IOBCYL DS 1H	DASD seek cylinder for this IOBLOK
12	IOBVADD DS 1H	Virtual device address
14	IOBMISC DS 1F	Use varies according to caller
18	IOBUSER DS 1F	Pointer to VMBLOK of user
1C	IOBIRA DS 1F	IOBLOK interrupt return address
20	IOBCAW DS 1F	Pointer to CCW chain
24	IOBRCAW DS 1F	Pointer to restart CCW chain
28	IOBCSW DS 1D	Real CSW for I/O operation
30	IOBIOER DS 1F	Pointer to IOERBLOK with sense byte
34	IOBMISC2 DS 1F	Use varies according to caller
38	IOBSPEC DS 1X I*3	
39	Bits defined in IOBSPEC IOBTIO EQU X'80' IOBHIO EQU X'40' IOBSIOF EQU X'20' IOBIMSTK EQU X'10' IOBUNSL EQU X'08' IOBCOPY EQU X'04' IOBSENS EQU X'02' IOBTRPND EQU X'01' IOBSPEC DS 1X I*4 Bits defined in IOBSPEC2 IOBWRAP EQU X'80' IOBCLN EQU X'40' IOBUNREL EQU X'20' IOBUC EQU X'10' IOBSNSIO EQU X'08' IOBREL EQU X'04'	IOBLOK request for a TIO IOBLOK request for a HIO Virtual SIO fast release Shut down SDR function IOBLOK resulting from unsolicited interrupt I/O block associated with a COPY request Sense operation for COPY request Virtual trace pending on this I/O block IOBLOK special requests flag second byte Input/output task for AUTOPOLL wrap list VDEVBLOK locked when CCW got control Input/output task contains release, DMKUNT must process Unit check status Normal sense operation in progress Channel program contains CP release
3 A	IOBSPEC3 DS 1X	IOBLOK special requests flag third byte
3B 3C	Bits defined in IOBSPEC3 IOBSENSE EQU X'80' IOBCUE EQU X'20' IOBVCUE EQU X'10' IOBRSV2 DS 1X IOBCUBSY DS 1F	Do not execute sense operation on hardware Special queue IOBLOK for SPM V=R Virtual queue IOBLOK for SPM V=R Reserved for IBM use Forward Pointer for control unit busy IOBLOKs
	IOBSIZE EQU (*-IOBLOK)/8	
12	FOR CP IOBLOKS ORG IOBVADD IOBRONT DS 1H	Retry count

LOCKBLOK: USERID LOCK CONTROL BLOCK

LOCKBLOK is used to synchronize execution for sections of nonreenterable code. Locked users are returned to the CPEXBLOK queue when the function being executed completes or no longer requires nonreenterable resources. LOCKBLOKs are queued off DMKSYSLB.

0		LOCKNEXT	1	LOCKQUE	7 !
8			LOCKNAME		۱- ا ا

Hexadecimal Displacement	Field Name		Field Description, Contents, Meaning
0	LOCKNEXT DS	1F	Pointer to the next lock control block
4	LOCKQUE DS	1 F	Pointer to CPEXBLOK queue
8	LOCKNAME DS	1 D	The name being locked
	LOCKSIZE EQU	(*-LOCKBLOK)/8	LOCKBLOK size in doublewords (X 02)

MCHAREA: MACHINE CHECK SAVE AREA

MCHAREA provides CP with statistical data that relates to malfunctions of the real processor, to its buffers, to processor storage for damage assessment, and to the recovery of VM/370.

0	MCH	DAI	MLN	1	MCH	PR	OCA	1.			MCHR	EC			
8	M	СНО	CPEX					1	L*1	1.	////	/M(CHRES	EV,	/////
10	M*1	1	M*2	1	M*3	ı	M*4	1	M*5	ı	M*6	1	M*7	1	M*8
18		MCHLSUM													
	•														
										- -					
40	N*1	1.	N*2	1	N*3	1	N*4	1	N*5	1	N*6	1	N*7	1	N*8
48			MC	ΗF	SAR			1			MC	HF:	SAV		
50			MC	HF	SEAV			1			MC	HP	DARI		

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
0	MCHDAMGE	DS	0 н	Damage assessment area
0 2 4 8 C	MCHDAMLN MCHPROCA MCHREC MCHCPEX MCHMODEL	DS DS DS DS	1H XL2 1F 1F 1X	Length of damage assessment area Processor address Machine check record address Machine check CPEXBLOK address L*1 Model number for the machine
	Bits defin MOD4341 MOD3033 MOD3032 MOD3031 MODEL168 MODEL158 MODEL155 MODEL148 MODEL148 MODEL145 MODEL138 MODEL138 MODEL135 NOMODEL	ed in EQU	MCHMODEL X'18' X'18' X'14' X'14' X'10' X'10' X'0C' X'0C' X'0C' X'0C' X'0C' X'0C' X'0C' X'0C' X'0C'	ID number for the 4341 machine ID number for the 4331 machine ID number for the 3033 processor ID number for the 3032 processor ID number for the 3031 processor ID number for the 168 machine ID number for the 165 machine ID number for the 155 machine ID number for the 155 machine ID number for the 148 machine ID number for the 148 machine ID number for the 145 machine ID number for the 138 machine ID number for the 138 machine ID number for the 135 machine No support for machine
D 10 10	MCHRESEV MCHDAMFL MCHFLAGO	DS DS DS	3 X OBL8 1 X	Reserved for IBM use Damage assessment data M*1 System status
	Bits defin MCHOHDWR MCHOSFTR MCHOUSAD MCH1GERR MCHOTERM MCHOQUIT	ed in EQU EQU EQU EQU EQU EQU EQU	MCHFLAGO X'80' X'40' X'20' X'10' X'08' X'04'	Hardware recovery Software recovery User abnormally terminated Channel inoperative Operating system termination Quiet mode in effect

PSA: PREFIX STORAGE AREA (LOW STORAGE LOCATIONS)

| PSA is the primary control block. It controls CP and virtual machine activity. PSA | contains the normal low core IPL, logout, and PSW information; the processor model, type, | and features; and BALR and FREE areas. PSA also contains monitor and trace data and the | needed linkages to virtual machines, real devices, and spool files.

Note: All fields reside in real PSA unless otherwise specified. Fields residing in absolute PSA are specifically identified. For uniprocessor operation, real PSA equals absolute PSA (or 0). If the system was running in AP mode when a catastrophic error occurred, the Attached Processor will no longer be running. System recovery is in uniprocessor mode and the real PSA will no longer be zero.

Page 0, Machine Usage 01 **IPLPSW** IPLCCW1 IPLCCW2 101 **EXOPS W** 201 SVCOPSW PROPS W ۱ 301 MCOPSW TOOPSW 401 CSW CAW QUANTUMR 501 TIMER | QUANTUM í EXNPSW 601 SVCNPSW PRNPSW MCNPSW IONPSW 701 801 CPULOG 1001 **FXDLOG** 1601 **FPRLOG** 1801 GPRLOG ı 1001 CRLOG 2001 TEMPSAVE 2401 BALRSAVE 2801 FREESAVE 2C01 FREEWORK 2F0 DATE TODATE 1 3001 STARTIME CPUID ı PAGEWAIT 3101 IDLEWAIT ı 3201 IONTWAIT 1 PROBTIME 3301 RUNPSW RUNUSER IDSPLPSW 340 | RUNCRO IRUNCR1 [CPSTAT | CPRESTRT 350 | PGREAD | PGWRITE PGWAITIM

360|///PGWAITPG/////|PSASVCCT |P*1 |P*2|

			<u>.</u>
CPID	CPABEND	P*3 P*4	ASYSVM
ARSPPR	AR SPPU	ARSPRD	ARIOPU
ARIOPR	ARIORD	P*5 P*6	ARSPAC
AVMREAL	ASYSABND	ASYSLC	[ASYSOP
ARIOCT	ARIOCH	! ARIOCU	ARIODV
ARIOCC	ARIOUC	ARIODC	ACORETBL
APAGCP	CPCREGO	CPCREG6	CPCREG8
TIMEDISP	ASVCLIST	AVMALIST	LASTUSER
PAGECUR	IMONNEXT	PAGEND	PAGENXT
TRACEFLG	TTSEGCNT	P*7 P*8	(PSARSV1
ALOKRF	ALOKSY	PSAR ECPS	1//////
////////	//////PSAF	SV15/////	///////////////////////////////////
INSTWRD1	INSTWRD2	INSTWRD3	INSTWRD4
	Constar	ts Pool	
· ·	_		
APTRLK	INOADD	X40FFS	XRIGHT24
XPAGNUM	XRIGHT 16	A FR EE	AFRET
AQCNWT	ADSPCH	APTRAN	X2048BND
	DUMPSA	VE	
			• •
	SIGSAV	E	
•			
	LOKSAV	'E	!
•			•
	ARSPPR ARIOPR AVMREAL ARIOCT ARIOCC APAGCP TIMEDISP PAGECUR TRACEFLG ALOKRF /////// INSTWRD1 APTRLK XPAGNUM AQCNWT	ARSPPR ARSPPU ARIOPR ARIORD AVMREAL ASYSABND ARIOCT ARIOCH ARIOCC ARIOUC APAGCP CPCREGO TIMEDISP ASVCLIST PAGECUR MONNEXT TRACEFLG TTSEGCNT ALOKRF ALOKSY /////////////////////////////// INSTWRD1 INSTWRD2 Constant APTRLK NOADD XPAGNUM XRIGHT16 AQCNWT ADSPCH DUMPSA	ARSPPR ARSPPU ARSPRD ARIOPR ARIORD P*5 P*6 AVMREAL ASYSABND ASYSLC ARIOCT ARIOCH ARIOCU ARIOCC ARIOUC ARIODC APAGCP CPCREGO CPCREG6 TIMEDISP ASVCLIST AVMALIST PAGECUR MONNEXT PAGEND TRACEFLG TTSEGCNT P*7 P*8 ALOKRF ALOKSY PSARECPS ///////////////PSARSV15///// INSTWRD1 INSTWRD2 INSTWRD3 Constants Pool APTRLK NOADD X40FFS XPAGNUM XRIGHT16 AFREE AQCNWT ADSPCH APTRAN DUMPSAVE

5C0	MFASAVE	6B0	CHGREGS RUN370E RESERVED/
•		6C0	UNSHRVM P*10 P*11 ////RESERVED////
6001	SWTHSAVE	6D0	STACKVM UNSHRVM2 ADMKCPE RESERVED/
•	SWITTSRVE	6E0	////////RESERVED (cont)////////
•		6 F 0	ALOKUM RESERVE ALOKSP AEXTSP
640	LOCKSAV	700	ATMRSN //////RESERVED///////
650	SVCREGS	710	MONREGS
660	PREFIXA PREFIXB PSACPXBP //RESVD//	•	:
670	WAITSTRT WAITEND	•	
680	PWTPAGES ACTIVTRQ EMSPEND EMSREC	750	LOKSA VE2
690	XCPEND P*7 P*8 P*9 APSTATUS		
640	AMCHAREA SHRLKCNT PROBSTRT	.	

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
0	<u>Machine</u> U	<u>Jsage</u> DS	1 D	IPL start PSW
	RSRTNPSW RSRTOPSW		IPLPSW 1D 1D	Restart new PSW Restart old PSW
8	IPLCCW1	DS	1 D	IPL CCW
8	PSARSV3	ORG DS	IPLCCW1	Reserved for IBM use
č	TRACSTRT		1F	Address of start of trace table. Note that TRACSTRT is in absolute PSA
10	TRACEND	DS	1F	Address of end of trace table. Note that TRACEND is in absolute PSA
14	TRACCURR	DS	1F	Address of next available trace table entry. Note that TRACCURR is in absolute PSA
10	IPLCCW2	DS	1 D	IPL CCW
18	EXOPSW	DS	1D	External old PSW
20	SVCOPSW	DS	1D	SVC old PSW
28	PROPSW	DS	1D	Program old PSW
30	MCOPSW	DS	1D	Machine check old PSW
38	IOOPSW	DS	1D	I/O old PSW
40	CSW	DS	1D	Channel status word
48 4C	CAW QUANTUMR	DS	1F 1F	Channel address word Interval timer value at last interrupt
50	TIMER	DS DS	1F	13-microsecond interval timer
54	QUANTUM	DS DS	1F	Interval timer value at last dispatch
58	EXNPSW	DS	1D	External new PSW
60	SVCNPSW	DS	1D	SVC new PSW
68	PRNPSW	DS	1D	Program new PSW
70	MCNPSW	DS	1D	Machine check new PSW
78	IONPSW	DS	1 _D	I/O new PSW

Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
348	CPSTAT	DS	1F		CP running status
348	CPSTATUS	ORG DS	CPSTAT 1X		CP running status
	Bits def. CPWAIT CPRUN CPEX CPFVRUN CPSUPER	EQU EQU EQU EQU	X 80		CP in wait state CP running user in RUNUSER CP executing stacked request Reserved for IBM use Processor is executing in supervisor state
349	XTNDLOCK	DC	1 %		System extending free storage if it is equal to X'FF'. Note that XTNDLOCK is in absolute PSA.
34A	CPSTAT2	DC	1 X		Flag byte
	Bits def. CPMICAVL CPMICON CPSHRLK CPASTAVL CPASTON	EQU EQU EQU EQU	in <u>CPSTAT2</u> X*80* X*40* X*20* X*08* X*04*		Virtual machine assist available on processor Virtual machine assist is on for system CP processing shared named system page CP assist available on processor CP assist is on for system
3 4 B	CPSTAT3	DS	1 X		Wait time accounting flag
	Bits def CPTIDLE CPTPAGE CPTIONT	EQU EQU	CPSTAT3 X'80' X'40' X'20'		Timer contains idle time Timer contains page wait time Timer contains I/O wait time
34C	CPRESTRT	DS	1F		Restart address if external interrupt marks page invalid
350	PGREAD	DS	1F		Total number of page reads
354	PGWRITE	DS	1F		Total number of page writes
358	PGWAITIM		1 D		Time spent in page wait, multiplied by number of pages waiting
360	PGWAITPG		1D		Reserved for IBM use
368	PSASVCCT		1F		Total number of user SVCs
36C	PAGELOAD		1H		Page wait percent, last measurement
36E 370	PAGERATE PSENDCLR		1H 0F	P*2	Note that PAGERATE is in absolute PSA.
370 370	CPID	DS DS	1F		End of area cleared by DMKCPINT CP running identifier. Note that CPID is
374	CPABEND		1F		in absolute PSA. CP abend code
378	PSTARTSV		OF		Start of save/restored code
378	SYSIPLDV		1H	P*3	Device address of system IPL device
37A	PGSRATIO		H • O •	P*4	Page steals/total replenished
37C	ASYSVM	DC	V (DMKSYSVM	_	Address of system VMBLOK
380	ARSPPR	DC	V (DMKRSPPI	•	Address of system printer file chain.
384	ARSPPU	DC	V (DMKRSPPT	•	Address of system punch file chain.
388	ARSPRD	DC	V (DMKRSPRI		Address of system reader file chain.
38C	ARIOPU	DC	V (DMKRIOPU	•	Address of system punch table.
390	ARIOPR	DC	V (DMKRIOPE		Address of system printer table.
394	ARIORD	DC	V (DMKRIORI		Address of system reader table.
398	IPUADDR	DS	1H	P*5	Instruction processing address
39A	PSAMSS	DS	1H	P*6	Address of MSS volume
	<u>Bits</u> <u>def</u> MSSPRES		in <u>PSAMSS</u> x 90		The MSS is online and the MSS

communicator has been initialized

Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
39C 3A0	ARSPAC AVMREAL	DC DC	V (DMKRSPAC) A (0)		Address of system accounting chain VMBLOK address of virtual=real user. Note that AVMREAL is maintained in both PSAs
3A4	ASYSABND	DC	A (0)		Address of system abend printer
3 a 8	ASYSLC	DC	V (DMKSYSLC)		Address of SYSLOCS information
3AC	ASYSOP	DC	V (DMKSYSOP)		Address of system operator VMBLOK
3B0	ARIOCT	DC	V (DMKRIOCT)		Address of real channel index table
3B4	ARIOCH	DC	V (DMKRIOCH)		Address of first RCHBLOK
3B8	ARIOCU	DC	V (DMKRIOCU)		Address of first RCUBLOK
3BC	ARIODV	DC	V (DMKRIODV)		Address of first RDEVBLOK
3C0	ARIOCC	DC	V (DMKRIOCC)		Address of count of real system channels
3C4	ARIOUC	DC	V (DMKRIOUC)		Address of count of real system control units
3C8	ARIODC	DC	V (DMKRIODC)		Address of count of real system devices
3CC	ACORETBL		V (DMKSYSCS)		Address of system CORTABLE
3D0	APAGCP	DC	A (X'FFFFFF		Address of first pageable program
3D4	CPCREGO	DC	X'808008C0'		CP architecture control and external mask
3D8	CPCREG6	DC	F'0'		CP assist and virtual machine assist mask
3DC	CPCREG8	DC	F'0'		MONITOR CALL enable mask
3E0	TIMEDISP		1F		Timer displacement for charge Address of CP assist pointer list
3E4 3E8	ASVCLIST AVMALIST		V (DMKSVCNS) V (DMKPRVMA)		Address of expanded virtual machine assist pointer list
3EC	LASTUSER	DC	V (DMKSYSVM))	Last user to be dispatched
3F0	PAGECUR	DS	1F		Current monitor buffer page address. Note that PAGECUR is in absolute PSA.
3F4	MONNEXT	DS	1F		Next available address in monitor buffer. Note that MONNEXT is in absolute PSA.
3F8	PAGEND	DS	1F		Last address in current monitor buffer page. Note that PAGEND is in absolute PSA.
3FC	PAGENXT	DS	1F		Alternate monitor buffer page address. Note that PAGENXT is in absolute PSA.
400	TRACEFLG		1F		Trace table flags
400	TRACFLG1		TRACEFLG 1X		Trace table flag
	Bits def: TRAC01	ined i	n TRACFLG1		External interrupt tracing on
	TRAC02	EQU	X 40 4		SVC interrupt tracing on
	TRAC03	EQU	X 20 1		Program interrupt tracing on
	TRAC04	EQU	X'10'		Machine check tracing on
	TRAC05	EQU	X • 08 •		I/O interrupt tracing on
	TRAC67	EQU	X • 0 4 •		FREE/FRET call tracing on
	TRAC08 TRAC09	EQU EQU	X'02' X'01'		Enter dispatch tracing on Queue drop tracing on
401	TRACFLG 2	DS	1 X		Trace table flag
	Bits def	<u>ined</u> i	n TRACFLG2		Run user tracing on
	TRACOC	EQU	X • 40 •		Unstack I/O interrupt tracing on
	TRACOD	EQU	X 20 1		Virtual CSW stored tracing on
	TRACBEF	EQU	X'10'		SIO, TIO, and HDV tracing on
	TRAC10	EQU	X 1081		Unstack IOBLOK or TRQBLOK tracing on
	TRAC11	ΕQU	X • 0 4 •		Trace BTU activity for 370x NCP
	TRAC12	EQU	X'02'		Lock spin tracing active
	TRAC13	EQU	X'01'		Signal processor tracing active
402	TRACFLG3		1H		Reserved for IBM use
404	TTSEGCNT		1F	D#7	Count of total page/swap tables in system. Note that TTSEGCNT is in absolute PSA.
1 408	CSADDR	DC		P*7	
(40A	PSARSV	DS		8 * 9	
1 40C	PSARSV1	DS	1 F		Reserved for IBM use

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
410	ALOKFR	DC	V (DMKLOKFR)	Attached processor free lockword address
414	ALOKSY	DC	V (DMKLOKSY)	Attached processor system lockword address
418	PSARECPS	DC	F'0'	Reserved for ECPS
41C	PSARSV15	DS	5 F	Reserved for IBM use
430	INSTWRD 1	DC	F • 0 •	Reserved for installation use
	Displacement 410 414 418 41C	Displacement Name 410 ALOKFR 414 ALOKSY 418 PSARECPS 41C PSARSV15	Displacement Name 410 ALOKFR DC 414 ALOKSY DC 418 PSARECPS DC 410 PSARSV15 DS	Displacement Name 410 ALOKFR DC V(DMKLOKFR) 414 ALOKSY DC V(DMKLOKSY) 418 PSARECPS DC F'0' 410 PSARSV15 DS 5F

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
434	INSTWRD2	DC	F • 0 •	Reserved for installation use
438	INSTWRD3	DC	E404	Reserved for installation use
43C	INSTWRD4	DC	F'0'	Reserved for installation use
			ntly Used Consta	ants
440	ZEROES	DC	6D • O •	
470	BLANKS	DC	8x 40 1	
478	FFS	DC	8X'FF'	Also = -1
440	F0 F1	EQU	ZEROES	
480 484	F1 F2	DC DC	F'1' F'2'	
488	F3	DC	F131	
48C	F4	DC	F*4*	
490	F5	DC	F151	
494	F6	DC	F161	
498	F7	DC	F 171	
49C	F8	DC	F181	
4 A O	F9	DC	F191	
4 A 4	F10	DC	F'10'	-
4A8	F15	DC	F'15'	Also = $X^{\circ}0000000F^{\circ}$
4AC	F16	DC	F'16'	
4B0	F20	DC	F'20'	
4B4	F24	DC	F'24'	
4B8	F60	DC	F'60'	Also = X'0000003C'
4BC	F240	DC	F • 240 •	Also = $X'000000F0' = C'0'$
4C0	F255	DC	F'255'	Also = $X'000000FF'$
4C4	F256	DC	F'256'	Also = X'00000100'
4C8	F4095	DC	F'4095'	Also = $X'00000FFF'$
4CC	F4096	DC	F'4096'	Also = X'00001000'
4D0	APTRLK	DC	V (DMKPTRLK)	Entry to lock a page in storage
4D4	NOADD	DC	X'FF000000'	Frequently used work value
4D8	X40FFS	DC	X'40FFFFF	Frequently used work value
4DC	XRIGHT24		X'00FFFFFF'	Isolate right 24 bits
4E0	XPAGNUM	DC	X'00FFF000'	Isolate the page number
4E4	XRIGHT16		X'0000FFFF'	Isolate the right 16 bits
4E8	AFREE	DC	V (DMKFREE)	Entry to allocate free storage
4EC	AFRET	DC	V (DMKFRET)	Entry to release free storage
4F0	AQCNWT	DC	V (DMKQCNWT)	Entry to write a terminal message
4F4	ADSPCH	DC DC	V (DMKDSPCH)	Entry to the VM/370 dispatcher
4F8 4FC	APTRAN X2048BND		V (DMKPTRAN) X OOFFF800	Entry to the paging supervisor Locate a half-page boundary
410	X2040BND	ЪС	X-00111000	bocace a narr page boundary
500	PSBCLR2	DS	0 F	Start of second area cleared by CP initialization (DMKCPI)
500	DUMPSAVE		16F	Save area for dump routine
540	SIGSAVE	DS	16F	Save area for DMKEXT
580	LOKSAVE	DS	16F	DMKLOK save area
5C 0	MFASAVE	DS	16F	Save area for malfunction alert
600	SWTHSAVE		16F	DMKVMASW save area
640	LOCKSAV	DS	4F	LOCK macro save area
650 660	SVCREGS PREFIXA	DS DC	4F F • O •	SVC save area Prefix value of this processor
660 664	PREFIXE	DC DC	F•0•	Prefix value of other processor
668	PREFIXE		A (0)	Address of CPEXBLOK for switch SVC.
				Note that PSACPXBP is in absolute PSA.
66C	RESVD	DS	1F	Reserved for IBM use
670 679	WAITSTRT		D D	Timer value at start of wait Timer value at end of wait
678 680	WAITEND PWTPAGES	DS DC	F 1 0 1	Pages in PGWAIT at start of wait
684	ACTIVIRQ		A (0)	Address of active transit queue
90 4	TCIT ILO	<i>D</i> C	(0)	wareen of accese crampre dagage

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
688	EMSPEND DC	F • 0 •		Emergency signal pending flags
	Bits defined EMSPQUI EQU EMSPEXT EQU EMSPSYNC EQU EMSPSHD EQU EMSPCLKC EQU EMSINQSC EQU	in EMSPEND x*80* x*40* x*20* x*10* x*08* x*01*		Quiesce pending Extend pending Synchronization pending Shutdown pending High order TOD synchronization pending Processor is quiesced
68C	EMSREC DC	F • 0 •		Emergency signal received flags
	Bits defined EMSRQUI EQU EMSREXT EQU EMSRSYNC EQU EMSRSHD EQU EMSRCLKC EQU	in EMSREC X'80' X'40' X'20' X'10' X'08'		Quiesce request received Extend request received Synchronization request received Shutdown request received High order TOD synchronization received
690	XCPEND DC	F • 0 •		External call pending flags
	Bits defined XCAPR EQU XCRES EQU XCWAK EQU XCDISP EQU	<u>in XCPEND</u> X*80* X*40* X*20* X*10*		Automatic processor recovery pending Resume request pending Wakeup request pending Dispatch request pending
694 696 698 69A	IPUADDRX DC LPUADDR DC LPUADDRX DC APSTATUS DS	9 X H • O • H • O •	P*7 P*8 P*9	Processor address of other processor Logical address of this processor Logical address of other processor Attached processor status bytes
69A	ORG APSTAT1 DC	APSTATUS X • 00 •		Attached processor status
	Bits defined APUOPER EQU PROCIO EQU APUNONLN EQU MPFEAT EQU CSSFEAT EQU CPINITD EQU	in APSTAT1 x'80' x'40' x'20' x'10' x'02' x'01'		Attached processor operational Processor has I/O capability System generated for attached processor mode but running in uniprocessor mode Multiprocessing feature is installed Channel set switching feature installed System initialization complete
69B	APSTAT2 DC	X • 0 0 •		Second flag byte
	Bits defined CPMCHLK EQU	<u>in</u> <u>APSTAT2</u> X'10'		Machine check processing pending (for ECPS only) PTLB required for processor
69C	CPTERMLK DC	X • 0 0 •		DMKMCT system termination is in progress.
69D	CPFRELK DC	X * 0 0 *		Note that CPTERMLK is in absolute PSA. Free storage extend pending.
69E	FRLKPROC DC	X • 00 •		Note that CPFRELK is in absolute PSA. Logical processor identification for CPFRELK.
69F	CPFRESW DC	x • 0 0 •		Note that FRLKPROC is in absolute PSA. DMKFRE must transfer execution to the attached processor. Note that CPFRESW is in absolute PSA.
6AO 6A4	AMCHAREA DC SHRLKCNT DC	F • 0 •		Address of DMKMCH work area Count of times CPSHRLK is set (used to clear CPSHRLK)
6A8	PROBSTRT DS	1 D		Virtual machine time out queue at dispatch

RCHBLOK: REAL CHANNEL BLOCK

RCHBLOK contains status and type information for the specified channel. The linkage to I/O tasks operated on by that channel and to the control units attached to that channel is also maintained. The ARIOCH field of the PSA points to the first RCHBLOK, which is generated in contiguous storage.

0	RCHADD RCHLOCK	1	R*1	ı	R*2	1	RCHQCNT	
8	RCHFIOB	1			RCHLI	ов		
10	R*3 R*4 R*5 R*6	1			RCHST	IDC		
18	RCHRSTQ	1			RCHOP	ER		
20	RCHCUTBL							
	(Variable Length)							

Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
0 2 4	RCHADD RCHLOCK RCHSTAT	DS DS DS	1 H 1 H 1 X	R*1	Channel address Channel lock Channel status
	Bits def RCHBUSY RCHSCED RCHDED	EQU	n RCHSTAT X 80 1 X 40 1 X 01 1		Channel busy IOB scheduled on channel Channel dedicated
5	RCHTYPE	DS	1 X	R*2	Channel type
	Bits def RCHSEL RCHBMX RCHMPX RCH370	ined i EQU EQU EQU EQU	n RCHTYPE x 180 1 x 140 1 x 120 1 x 101 1		Selector channel Block multiplexer channel Byte multiplexer channel S/370 type channel (S/370 I/O instruction support)
6	RCHQCNT	DS	1 H		Number of IOBLOKs queued off channel
8	RCHFIOB	DS	1F		Pointer to first IOBLOK queued
C	RCHLIOB	DS	1F	D#3	Pointer to last IOBLOK queued Channel data check count
10 11	RCHDTCK RCHCCCK	DS DS	1 X 1 X	R*3 R*4	Channel data check count Channel control check count
12	RCHIFCC	DS	1 X	R*5	Interface control check count
13	RCHCHCK	DS	1X	R*6	Channel chaining check count
14	RCHSTIDC		1 F		Result of STIDC instruction issued at CP initialization; if cc = 3, the content is X'FFFFFFFF'
18	RCHRSTO	DS	1 F		Address of channel to be restarted
1C	RCHOPER	DS	1 F		IOBLOK operational on channel time
20	RCHCUTBL	DS	32н		Control units attached - RCUSTART index (The index values must be multiplied by 8 and added to the beginning of the RDEVBLOK table (ARIODV).)

RCHSIZE EQU (*-RCHBLOK)/8 RCHBLOK size in doublewords (X'OD')

RCUBLOK: REAL CONTROL UNIT BLOCK

RCUBLOK provides control and status information on a defined real control unit. Linkages are provided to queued IOBLOKs. The ARIOCU field of the PSA points to the first RCUBLOK, which is generated in contiguous storage.

0	RCUADD I	RCULOCK	R*1	R*2	1	RCUQCNT			
8	RCUFIOB	1			RCU	LIOB			
10	RCUCHA	1			RCU	СНВ			
18	RCUCHC	1			RCU	CHD			
20	RCURSTQ	1			RCU	OP ER			
28	RCUCUBSY	1			RCU	RSV1			
30		RCUDV	TBL						
	(Variable Length)								

Hexadecimal Displacement	Field Name				Field Description, Contents, Meaning
0	RCUADD	DS	1H		Control unit address
2	RCULOCK	DS	1H		Control unit lock
4	RCUSTAT	DS	1 X	R*1	Control unit status
	Bits def: RCUBUSY RCUSCED RCUDISA RCUCHAOF RCUCHBOK RCUCHCOF RCUCHCOF	EQU EQU EQU EQU EQU	RCUSTAT X'80' X'40' X'20' X'08' X'04' X'02' X'01'		Control unit busy IOB scheduled on control unit Control unit disabled RCUCHA to RCHBLOK path is not available RCUCHB to RCHBLOK path is not available RCUCHC to RCHBLOK path is not available RCUCHC to RCHBLOK path is not available
5	RCUTYPE	DS	1 X	R*2	Control unit type
	Bits defined in RCUTYPE				
	RCUSHRD		x 80'		This control unit can be attached to only one subchannel
	RCUSUB	EQU	X 40		This is a subordinate control unit
	RCU2703	EQU	X • 03 •		TCU is a 2703
	RCU2702	EQU	X * 02 *		TCU is a 2702
	RCU2701	EQU	X * 0 1 *		TCU is a 2701
6	RCUQCNT	DS	1H		Number of IOBLOKs queued off control unit
6 8	RCUFIOB	DS	1F		Pointer to first IOBLOK queued
С	RCULIOB	DS	1 F		Pointer to last IOBLOK queued
10	RCUCHA	DS	1F		Pointer to RCHBLOK - path A
10	RCUPRIME	ORG DS	RCUCHA 1F		Pointer to the primary control unit

	Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
111	14 18 1C 20 24 28 2C 30	RCUCHD RCURSTQ RCUOPER RCUCUBSY	DS DS DS	1F 1F 1F 1F 1F 1F 1F	Pointer to RCHBLOK - path B Pointer to RCHBLOK - path C Pointer to RCHBLOK - path D Address of control unit to be restarted IOBLOK operational on control unit time Queue of control unit busy IOBLOKs Reserved for IBM use Devices attached - RDVSTART index (The index values must be multiplied by 8 and added to the beginning of the RDEVBLOK table (ARIODV).)
		RCUSIZE	EQU	(*-RCUBLOK)/8	RCUBLOK size in doublewords (X'08')

RCWTASK: TRANSLATED VIRTUAL I/O CCW

RCWTASK contains the virtual-to-real CCW translation and other data related to a virtual machine's I/O operation. A pointer is maintained to the virtual CCW operation. The first CCW-16 points to the beginning of RCWTASK.

0	!	RCWI	PNT	1	RCWVCAW]			
8	RCWV	CNT	RCWRCNT	1	RCWHEAD	1	RCWCCNT	-1 !		
10			RCW	CCW				-1		
	(Variable Length)									
	<u> </u>		(A GI I G D I A					_;		
Hexadecimal Displacement	Field Name				Field Descr	inti	on Conten	ts, Meaning		
DISPIGCEMENT										
0	RCWPNT	DS	1F		Pointer to	next	RCWTASK			
4	RCWVCAW	DS	1F		Virtual add	lress	of CCW cha	ain		
8	RCWVCNT	DS	1 H		Virtual CCW count					
A	RCWRCNT	DS	1 H		Real CCW count					
С	RCWHEAD	DS	1 H		RCWTASK header mark X'FFFF'					
E	RCWCCNT	DS	1 H		RCWTASK cor					
10	RCWCCW	DS	1 D		One or more CCWs for device I/O		ce I/O			
		ORG	RCWCCW							
10	RCWADDR	DS	1F		CCW data ad	ldres	ss			
14	RCWFLAG	DS	1 X		CCW flag bi	ts				
15	RCWCTL	DS	1X		CCW CP-cont	rol	bits			
	Bits def:	Bits defined in RCWCTL								
	RCWIO	EQU	X'80'		I/O data pa	age 1	.ocked			
	RCWGEN	EQU	X 4 4 0 1		CP-generate					
	RCWHMR	EQU	X'20'					address/record R0		
	RCWREL	EQU	X 10 1		CCW address	rel	locatable i	f CCWs moved		
	RCWISAM	EQU	X • 08 •		ISAM modify	jing	CCW			
	RCW2311	EQU	X • 0 4 •		TYP2311T-B					
	RCWINVL	EQU	X'02'					ress is invalid		
	RCWSHR	EQU	X'01'		Shared user	pag	re was copi	eđ		
16	RCWCNT	DS	1 H		CCW byte co	ount				
		ORG	RCWADDR							
10	RCWCOMND	DS	1 X		CCW command	i coá	le			

VDEVBLOK: VIRTUAL DEVICE BLOCK

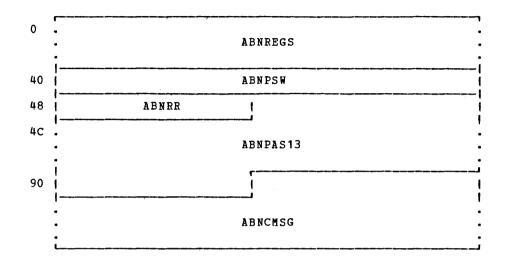
0	VDEVADD VDEVIN	TS	V*1 V*2 V*3 V*4
8		DEVCSW	
10	VDEVRELN VDEVBN	D (VDEVPOSN
18	VDEVQUED	1	V D EVOP ER
20	VDEVLINK	1	VDEVREAL
28	VDEVIOCT	1	V D EV US ER
30	VDEVIOER	1	VDEVIOB
38	V*5 ////VDEVRES1/	////	V D E V R R B

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
0	VDEVADD DS	1 H		Virtual device address
2	VDEVINTS DS	1 H		Virtual device interrupt status
4	VDEVTYPC DS		V * 1	Virtual device type class
5	VDEVTYPE DS			Virtual device type
6	VDEVSTAT DS	1X		Virtual device status
	Bits defined	in VDEVSTAT		
	VDEVCHBS EQU	X • 80 •		Virtual subchannel busy
	VDEVCHAN EQU			Virtual channel interrupt pending
	VDEVBUSY EQU			Virtual device busy
	VDEVPEND EQU	x • 10 •		Virtual device interrupt pending
	VDEVCUE EQU	X • 08 •		Virtual control unit end
	VDEVNRDY EQU			Virtual device not ready
	VDEVCATT EQU			Virtual device attached by console function
	V DEV DED EQU	X'01'		VDEVREAL is dedicated device RDEVBLOK
7	VDEVFLAG DS	111	V *4	Virtual device flags
		in VDEVFLAG		
	VDEVRDO EQU			DASD - read-only
	VDEVENAB EQU			Virtual 270x - line enabled
	VDEVTDSK EQU			DASD - T-disk space allocated by CP
	VDEVDIAL EQU			Virtual 270x - line connected
	VDEVCSPL EQU			Console - activity spooled
	VDEV231T EQU			DASD - 2311 simulated on top half of 2314
	VDEV231B EQU			DASD - 2311 simulated on bottom half of 2314
	VDEVCCW1 EQU			Console and spooling - processing first CCW
	VDEVSAS EQU			DASD - Executing standalone seek
	VDEVDLY EQU			Console - delay spooling
	V DEVDET EQU			Virtual device is being detached
	VDEVPOST EQU			Present attention with a single interrupt
	VDEVRSRL EQU			Reserve/release are valid CCW operation codes
	ADEANC EOG	X'01'		Virtual device sense bytes present

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
8	VDEVCSW	DS	1D	Virtual channel status word
10	VDEVRELN		1H	Virtual DASD cylinder relocation
12	VDEVBND		1H	Virtual DASD size (in cylinders)
14	VDEVPOSN		1F	Virtual DASD seek position
18	VDEVQUED		1F	Virtual SIO to real SIO queued time
1C	VDEVOPER		1F	Device operational time
20	VDEVLINK	DS	1F	Link to virtual shared devices
		ong	UDDUT THE	
20	VDEVTMAT	ORG DS	VDEVLINK 1F	T-disk attached time (TOD clock word 0)
2.0	UDBUDBAT	D.C	110	Deinten to meel device DDBUDION
24	VDEVREAL		1F	Pointer to real device RDEVBLOK
28	VDEVIOCT		1F	Virtual device I/O count
2C	VDEVUSER		1F	Pointer to VMBLOK of VDEVBLOK owner
30	VDEVIOER	DS	1F	Pointer to IOERBLOK for last error
		ORG	VDEVIOER	
30	VDEVSNSE		1F	Sense bytes for spool device
34	VDEVFCBK		1F	Address of forms control block (VFCBBLOK)
34	*DE*FCBR	DS	11	Address of forms control block (Viebblok)
34	VDE V IOB	DS	1F	Pointer to active IOBLOK
38	VDEVFLG2	DS	1X V*5	Virtual device flag byte 2
			n VDEVFLG2	
	VDEV RRF	EQU	X.80.	Process virtual RESERVE/RELEASE commands
	VDEVRES	EQU	X • 40 •	Minidisk reserved by VDEVUSER
	V DEVODE	EQU	X • 20 •	VDEVBLOK to get device when minidisk
				is released
	VDEVCPEX	EQU	X'10'	Virtual I/O waiting for release of
	WDDWGWDW	TO#	W	minidisk
	VDEVSMBY	_	X 1021	Status modifier plus busy interrupt
	VIRTUAL	ΕQυ	X • 0 1 •	Virtual device is known by the virtual
				machine as a 3330V
39	VDEVRES 1	פת	3 x	Reserved for IBM use
3C			1 F	
30	VDEVRRB	בע	1 F	Address of VRRBLOK for RESERVE/RELEASE
	VDEVSIZE	EQU	(*-VDEVBLOK)/	8 VDEVBLOK size in doublewords (X 07)
	For Spoo	ling/C	<u>onsole Devices</u>	
		ORG	VDEVRELN	
10	VDEVEXTN	DS	1F	Pointer to spool extension block
14	VDEVSPAR	DS	1F	Spare pointer to spool extension block
18	VDEVCON	DS	1F	Pointer to VCONCTL console control
1C	VDEVSPL		1 F	Pointer to VSPLCTL spool control
20	VDEVCLAS		1C	Spool output class
21	VDEVKEY		1X	Storage key in user's CAW
22	VDEVUNIT		1H	Spool output directed device address
24	VDEVCOPY		1H	Number of copies requested
26	VDEVCFLG		1X	Console - virtual console flags
. .			· 	
	Bits def:	ined i	n VDEVCFLG	
	VDEVATIN		X 80 1	User pressed Attention key two or more times
	VDEVTIC	ΕQŪ	X 4 0 4	Last CCW processed was a TiC
	VDEVTRAN	_	X 20	Data transfer occurred during this channel
				program
	VDEVVCF	EQU	X'10'	Virtual console function in progress
	VDEVAUCR		X • 08 •	Automatic carriage return on first read
		-		-

ABWSECT: ABEND RECOVERY WORKSPACE

ABWSECT describes the fields used for saving registers and other data during abend recovery. V-constants in DMSABN, DMSDBG, DMSFRE, DMSITI, DMSITP, and DMSITS point to the ABWSECT block. ABWSECT is defined in module DMSABW.



	Hexadecimal Displacement	Field Name		
	0	ABNREGS	DS	16F
	40	ABNPSW	DS	D
	48	ABNRR	DS	F
	4C	ABNPAS13	DS	18F
ı	94	ABNCMSG	DS	CL96
1				

Space for DMSERR PLIST 94 ORG ABNPAS13 4C ABNERLST DS 47 X

Field Description, Contents, Meaning Registers at time of abend PSW at time of abend Temporary save area Area passed to nucleus routines Console message save area for IPCS extension program product

ADTSECT: ACTIVE DISK TABLE

ADTSECT describes the attributes of virtual disks (A-G, S, Y, Z) accessed by a virtual machine via the ACCESS command. Space is allocated for the ADT when DMSNUC is assembled. In the ADT, certain fields are defined for use by both CMS and OS. For example, ADTHBCT field at displacement 1C (hexadecimal) into ADTSECT is also defined as OSADTVTA for use by OS simulation routines. ADTSECT is invoked by the ADT macro.

0		ADTID	ı	A * 1	1	A*2
8	ADTPTR	(ADTDTA			
10	A DT F D A	ı	ADTMFDN			
18	A DT M FD A	1	ADTHBCT			
20	ADTFSTC	(ADTCHBA			
28	ADTCFST	1	ADT1ST			
30	ADTNUM	ı	ADTUSED			
38	ADTLEFT	ı	ADTLAST			
40	ADTCYL	A*3	A*4	A *5	١	A *6
48	ADTMSK	ı	MQQTCA			
50	ADTPQM1	1	ADTPQM2			
58	A DT PQM3	1	ADTLHBA			
60	ADTLFST	ADT	NACW	A D	TRE	S
68	ADTXNREC	1	ADTXAREC			

	Field Name				Field Description, Contents, Meaning
0 6	ADTID	DS	CL6		<u>l Read/Write Disks</u> Disk identifier (label) Third flag byte
		EQU EQU EQU EQU EQU	X 180 1 X 140 1 X 120 1 X 10 1 X 10 8 1		First half of DMSAUD has been called Extra chain link(s) to be returned Read/write OS or DOS disk All FST hyperblocks and FST entries sorted CMS/DOS/OS disk forced to a read-only For DMSAUD routine: Do not abend if it is a disk error
7 8 C 10 14 18 1C	ADTFTYP ADTPTR ADTDTA ADTFDA ADTN ADTMFDA OSADTVTA ADTHBCT	DS DS	1x 1A 1A 1A 1F 1A OF 1F	A*2	Filetype flag byte Pointer to next ADT block in chain Device table address in NUCON File directory (PSTAT) address Number of doublewords in master file directory Master file directory address VTOC address of OS pack FST hyperblock count

618	APIE	!	AIADT		
620	AUSER		ARDTK		
628	ASCANN	ŀ	ASSTAT		
630	ATABEND	1	ASUBSECT		
638	AOSMODL	1	AWRTK		
640	ASTRINIT	1	IADT		
648	AFREE	1	AFRET		
650	ADMSPIOC	1	APGMSECT		
658	AIOSECT	<u> </u>	ADMPEXEC		
660	ADIOSECT	1	AABNSVC		
668	ADMSERL	ı	ADMSCRD		
670	ADMSFREB ASVCSECT				
678	AADTLKP	1	AUPUFD		
680	ASTATEXT	ASTATEXT AOSRET			
688	ACMSRET ASCANO				
690	AEXEC	ASTART			
698	AADTLKW	AUSABRV			
6A0	AEXTSECT	ı	ASCBPTR		
648	ADMSROS	1	LDMSROS CDMSROS		
6B0	AACTLKP	1	AACTNXT		
6B8	AACT FREE	1	AACTFRET		
6C0	AADTNXT	!	ATRKLKP		
6C8	ATRKLKPX	ı	AQQTRK		
6D0	AQQTRKX	1	AERASE		
6D8	ATYPSRCH	ATYPSRCH AUPDISK			
6E0	AKILLEX	AKILLEX ATFINIS			
6E8	ARDBUF	1	AWRBUF		
6F0	AFINIS	1	ASTATE		
6F8	ASTATEW	1	APOINT		
•					

700		CONCCWS	
708			!
710		CONINBLK	[
7 18 J	سینه که در برای برای باید باید باید باید باید باید باید با	CONINBUF	1
•			•
7A0		CMNDLINE	i
•			
-	a annual part the trap this time ages the sign of the train size the time to the time.		l
848		CMNDLIST	į
•			•
A60		CONSTACK	
•			•
-		FREESAVE	
BAO!		FREESAVE	
			1
BEO		BALRSAVE	į
			٠
C20		WAITSAVE	((
•			•
-			!
C60			
C681	ADIKQLAB	NDIKQLAB	
C70 - C78	ARURTBL	ADMSVIB	
C80	AVIPWORK AVSAMSYS	A*18 ////////////////////////////////////	
C881	AVSREOJ	AAMSSYS	(
C90	ACBLIST		 ///
C981	AABWSECT	ADMSZIT	
L.		1 EDUCATI	

	exadecimal isplacement	Field Name			Field Description, Contents, Meaning
		Machine 1	TC2GO		
	0			1D	Initial program land of DCU
		IPLPSW	DS	1D	Initial program load of PSW
	8	IPLCCW1	DS	1D	Initial program load of CCW1
	10	IPLCCW2	DS	1D	Initial program load of CCW2
			ORG	IPLPSW	
	^	D C W V D C H			Don
	0	RSTNPSW	DS	1D	PSW restart new PSW
	8	RSTOPSW	DS	1D	PSW restart old PSW
	10	ACMSCVT	DS	1F	Address of simulated OS CVT
	14	ASYSREF	DS	1F	Address of nucleus address table
	10	EVMODEH	D.C.	1n	Butonnal ald Day
	18	EXTOPSW	DS	1D	External old PSW
	20	SVCOPSW	DS	1D	Supervisor call old PSW
	28	PGMOPSW	DS	1D	Program old PSW
	30	MCKOPSW	DS	1 D	Machine-check old PSW
	38	IOOPSW	DS	1 D	Input/output old PSW
	40	CSW	DS	1D	Channel status word
	48	CAW	DS	1F	Channel address word
	4C	NUCRSV1	DS	1F	Reserved for IBM use
	50	TIMER	DS	1F	Interval timer
	54	NUCRSV2	DS	1F	Reserved for IBM use
			DS	1D	
	58	EXTNPSW			External new PSW
	60	SVCNPSW	DS	1D	Supervisor call new PSW
	68	PGMNPSW	DS	1 D	Program new PSW
	70	MCKNPSW	DS	1 D	Machine-check new PSW
	78	IONPSW	DS	1D	Input/output new PSW
	80	CPULOG	DS	48D	Processor logout area
			ORG	CPULOG	
	80	NUCRSV3	DS	2D	Reserved for IBM use
	90	NUCRSV4	DS	1F	Reserved for IBM use
	94	MONCLASS	DS	1H	Monitor call class number
	96	PERCODE	DS	1H	Program event recorder code
	98	PERADDR	DS	1F	Program event recorder address
	9¢	MONCODE	DS	1F	MONITOR CALL code
	A O	NUCRSV5	DS		Reserved for IBM use
				4D	
	C0	LOWSAVE	DS	XL160	Save area for first 160 bytes of storage
	160	FPRLOG	DS	4D	Floating-point register logout area
	180	GPRLOG	DS	16F	General-purpose register logout area
	1C0	ECRLOG	DS	16F	Extended control register logout area
					·
		System Us		22	
	200	SYSTEMID		CL32	System name and date
	220	INSTALID	DS	CL64	Installation identification
	260	SYSNAME	DS	CL8	Name of saved system loaded (via IPL)
	268	IPLADDR	DS	1H	Address of device loaded (via IPL)
	26A	SYSADDR	DS	1 H	Address of system disk
	26C	DEVICE	DS	1F	Name of device causing last I/O interrupt
	270	NUCRSV6	DS	17	Reserved for IBM use
	274	FEIBM	DC	CL12 5749DMS00	* Component identification referenced
!	2/4	LEIDU	DC	CE 12-374 3D 8300	by IPCS extension program product
1	280	DIAGTIME	מת	CL24	Buffer for DIAGNOSE timer
	200	DIRGILILE	טע	CDZ4	Dutter for Directory Cimer
			ORG	DIAGTIME	
	280	CURRDATE		CL8	Current date - mm/dd/yy
	-00		-	02	==, ==, II
	288	CURRTIME	DS	CL8	Current time - hh.mm.ss
	290			1F	Current elapsed virtual time used
		CURRVIRT			
	294	CURRCPUT		1F	Current elapsed processor time used
	298	LASTVIRT		1F	Previous elapsed virtual time used
	29C	LASTCPUT	DS	1F	Previous elapsed processor time used
	2 A O	LASTCMND	DC	CL8: 1	Last command issued
	218	PREVCMND		CL8' '	Next to last command
	2B0	LASTEXEC		CL8' '	Last EXEC procedure
	2B8	PREVEXEC		CL8'	Next to last EXEC procedure
	200	LEUTHALL	50		nowe to rape hune brocedure

Hexadecimal Displacement	Field Name			Field Description, Contents, Meaning
2C0	LASTLMOD		CL8''	Last module LOADMOD into main storage
2C8	LASTIMOD		CL8'ACCESS'	Last module LOADMOD into transient area
2D0	DATIPCMS		D.0.	Date (mm/dd/yy) at last IPL CMS
2D8	CLKVALMD	DC	D. 0.	Time (STCK form) at midnight (0000 hours)
			Library Pointe	
2E0	MACDIRC	DC	8A (0)	Address of macro library directories
300	MACLIBL	DC	18F'-1'	Current macro library names
348 34 C	TXLIBSV	DC	F'0'	Library save area for TXTLIBS
350	MACLBSV TOTLIBS	DC DC	F • O •	Library save area for MACLIBS Total global chains (in bytes)
354	TXTDIRC	DC	A (0)	Address of TEXT library directories
358	TXTLIBS	DC	18F'-1'	Current TEXT library names
	Dahum D	D		•
3A 0	Debug Dur DUMPLIST		a <u>meters</u> OD	DEBUG DUMP PLIST
3A0	GRS015	DC DC	A (GPRLOG)	Address of GPR save area
3A4	LOC0176	DC	A (LOWSAVE)	Address of low storage save area
3A8	FIRSTDMP		A(O)	Address of first location to dump
3AC	LASTDMP	DC	A (0)	Address of last location to dump
3B0	FRS06	DC	A (FPRLOG)	Address of FPR save area
3B4	DMPTIT	DC	A (DMPTITLE)	Address of dump title line
3B8		DC	4X °FF °	Reserved for IBM use
3BC	DMPTITLE	DC	CL132' '	Dump title line
440	GLBLTABL	DC	F'0'	Reserved for IBM use
444	-	DC	H • O •	Used for alignment
446	SVC\$202	SVC	202	Common SVC for reentrant code
448	ERR\$202	DC	A (*+4)	User will fill if necessary
44C		BR	14	Return to caller
44E		DC	H • O •	Reserved for IBM use
450	Batch Moi BATFLAGS		Information 1X'00' A*1	Batch flags
	Bits def:	ined i	n BATFLAGS	
	BATRUN	EQU	X . 80 .	Batch monitor running
	BATLOAD	ΕQU	X • 4 0 •	Loading batch processor
	BATNOEX	EQU	X • 20 •	Suppress user job execution
	BATRERR	EQU	X 10 1	Batch reader error
	BATCPEX	EQU	X • 08 •	CP command executing
	BATUSEX	EQU	X • 0 4 •	User job executing
	BATMOVE	EQU	X 02 1	MOVEFILE executing from terminal
	BATTERM	EQU	X'01'	User job being flushed
451	BATFLAG2	DC	1X'00' A*2	More batch flags
	Bits def:	ined in	n BATFLAG2	
	BATXLIM	EQU	X . 80 .	User job limit exceeded
	BATXCPU	EQU	X 4 0 1	Processor time exceeded
	BATXPRT	EQU	X • 20 •	No. of printed lines exceeded
	BATXPUN	-	X • 10 •	No. of punched cards exceeded
	BATDCMS		X1081	Disabled CMS command called
	BATIPLSS	~	X • 0 4 •	Batch loading (via IPL) saved system
	BATSTOP	EQU	X*02*	Batch stopping after current job
	BATSYSAB	EQU	X'01'	System abnormal termination in process
452		DC	2X '00'	Reserved for IBM use
	Datah n-	20000		•
454	ABATPROC		r Entry Points A(0)	Main entry
454 458	ABATABND		A (0)	User job abend entry
45C	ABATLIMT		A (0)	User job limits table
460	AUSERST	DC .	A (0)	Virtual machine restart entry point
464		DC	2F 0 '	Reserved for IBM use

```
Hexadecimal
               Field
Displacement
               Name
                                                  Field Description, Contents, Meaning
                ASCANO
                                 V (DMSSCNO)
    68C
                          DC
    690
                          DC
                AEXEC
                                 V (DMSEXC)
    694
                ASTART
                                 V (DMSLDRA)
                          DC
    698
                AADTLKW
                          DC
                                 V (ADTLKW)
    69C
                AUSABRV
                          DC
                                 V (USABRV)
    6A0
                AEXTSECT
                         DC
                                 V (EXTSECT)
                ASCBPTR
                          DC
                                 V (SCBPTR)
    6A4
                                 A (0)
    6A8
                ADMSROS
                          DC
    6AC
               LDMSROS
                          DC
                                 H . O .
                          DC
                                 H . O .
    6AE
               CDMSROS
    6B0
                AACTLKP
                          DC
                                 V (DMSLAF)
    6B4
                AACTNXT
                          DC
                                 V (DMSLAFNX)
                AACTFREE DC
    6B8
                                 V (DMSLAFFE)
    6BC
                AACTFRET DC
                                 V (DMSLAFFT)
    6C0
                AADTNXT
                          DC
                                 V (ADTNXT)
                                 V (DMSTRK)
    6C4
                ATRKLKP
                          DC
    6C8
                ATRKLKPX DC
                                 V (DMSTRKX)
    6CC
                AQQTRK
                          DC
                                 V (DMSTQQ)
    6D0
                          DC
                                 V (DMSTQQX)
                AQQTRKX
    6D4
                AERASE
                          DC
                                 V (DMSERS)
    6D8
                ATYPSRCH DC
                                 V (TYPSRCH)
                AUPDISK
                          DC
                                 V (DMSAUD)
    6DC
    6E0
                AKILLEX
                          DC
                                 V(KILLEX)
    6E4
                ATFINIS
                          DC
                                 V (DMSFNST)
                ARDBUF
    6E8
                          DC
                                 V (DMSBRD)
    6EC
                AWRBUF
                          DC
                                 V (DMSBWR)
    6F0
                AFINIS
                          DC
                                 V (DMSFNS)
                          DC
    6F4
                ASTATE
                                 V (DMSSTTE)
    6F8
                ASTATEW
                          DC
                                 V (DMSSTTW)
    6FC
                APOINT
                          DC
                                 V (POINT)
                Terminal Buffers
    700
                          DS
                                 0,0,X'60',0
    700
                CONCCWS
                          CCW
                                                  Console read and write CCW
                                 3,0, X'20',1
    708
                                                  NOP to get CE and DE together
                          CCW
    710
                CONINBLK DC
                                 A (0)
                                 XL1 OA
    714
                          DC
    715
                          DC
                                 AL1 (134)
    716
                CONINBUF DS
                                 CL134
    7A0
                          DS
                                 00
                CMNDLINE DS
    7A0
                                 CL160
    840
                          DS
                                 0D
                                 CL8 'EXEC'
    840
                          DC
    848
                CMNDLIST DS
                                 CL536
    A60
                          DS
                                 0D
                                 CL320
    A60
                CONSTACK DS
                Save Areas
    BAO
                FREESAVE DS
                                 16F
    BE0
                BALRSAVE DS
                                 16F
    C20
                WAITSAVE DS
                                 16F
                VSAM and AMSERV Control Words
    C60
                          DS
                                 OD
                Percent of Available User Storage To Reserve for
                GETVIS/FREEVIS Use When Running VSAM
                                                  50 percent for CMS/VSAM use
    C60
                PCTVSAM
                          DC
                                 H • 50 •
                                                  Reserved for IBM use
                                 1 H
    C62
                          DS
                                 1F
                                                  Reserved for IBM use
    C64
                          DS
```

	exadecimal isplacement	Field Name			Field Description, Contents, Meaning
		Beginning	and 1	End of IKQLAB (when in storage)
	C68	ADIKQLAB	DC	A (X'FFFFFF')	Set to A(IKQLAB) when it is in storage
	C6C	NDIKQLAB	DC	A (0)	Set to end of IKQLAB when in storage
	C70	ARURTBL	DC	V (RURTBL)	VSAM resource table address
	C74	ADMSVIB	DC	V (DMSVIB)	Address of VSAM interface bootstrap
	C78	AVIPWORK	DC	A (0)	Address of DMSVIP work area
	c7c	VSAMFLG 1	DC	X 00 A*18	VSAM information flag
		Bits defi	ined <u>i</u>	n VSAMFLG)	
		VSAMRUN	EQU	X 80 1	VSAM system loaded
		VSJOBCAT	EQU	X 4 4 0 4	VSAM job catalog active
		VIPINIT	EQU	X 1 20 1	DMSVIP has been initialized
		VSAMSERV	EQU	X'10'	CMSAMS system loaded (AMSERV running)
		VIPSOP	EQU	X 1 08 1	OS interface SVC 2 call
		VIPTCLOS	EQU	X • 0 4 •	OS TCLOSE call
		VSAMSOS	EQU	X 102 1	OS AMSERV running
	C7D		DS	3X	Reserved for IBM use
	C80	AVSAMSYS	DC	A (0)	Address of VSAM saved system
	C84	AAMSSYS	DC	A (0)	Address of CMSAMS saved system
	C88	AVSREOJ	DC	V (\$\$BEOJ4)	DMSVSR entry point from VSAM \$\$BACLOS
	C8C	AVSRWORK	DC	A (0)	Address of DMSVSR work area
	C90	ACBLIST	DC	A (0)	ACB list built by OPEN/CLOSE
ı	C94		DS	1F	Reserved for IBM use
İ	C98	AABWSECT	DC	V (DMSABWSE)	Pointer for the IPCS extension program
!	~~~	154457-			product
1	C9C	ADMSZIT	DC	V (DMSZITEP)	Pointer for the IPCS extension program product
ı	CAO		DS	OD	

Appendix A. CP and RSCS Equate Symbols

This Appendix contains Assembler language equate symbols used to reference CP and RSCS data for:

- VM/370 Device Classes, Types, Models, and Features
- VM/370 Machine Usage
- VM/370 Extended Control Registers
- VM/370 CP UsageVM/370 Registers

YM/370 DEVICE CLASSES, TYPES, MODELS, AND FEATURES

	Field			
	Name			Field Description, Contents, Meaning
				besoription, contents, healing
	CLASTERM	EQU	X • 80 •	Terminal device class
	TYP2700	EQU	X 40 4	2700 bisyncronous line
	TYP2955	EQU	TYP2700	2955 communications line
	TYPTELE2		X 20	Telegraph terminal control type II
	TYPTTY	EQU	X 20	Teletype terminal
	TYPIBM1		X'10'	IBM terminal control type I
		EQU	X 18 1	2741 communications terminal
	TYP1050	EQU	X1141	1050 communications terminal
	TYPUNDEF		X'1C'	Terminal device type is undefined
	TYPBSC	EQU	X1801	Bisyncronous line for 3270 remote stations
•	TYPSDLC		X1001	Synchronous data link control 3210 console
	TYP3210 TYP3215		X'00' TYP3210	3210 Console
	TYP2150		TYP3210	2150 console
		EQU	TYP3210	1052 console
	111 1032	750	1113210	1032 00115010
	FTRDIAL	EQU	X • 01 •	Dial feature
		-		
	CLASGRAF	EQU	X 4 4 0 4	Graphics device class
	TYP2250	EQU	X.80.	2250 display unit
	TYP2260	-	X • 40 •	2260 display station
	TYP2265		X'20'	2265 display station
	TYP3066		X'10'	3066 console
	TYP1053		X'08'	1053 printer
	TYP3277	-	X 0 4 1	3277 display station
	TYP3278 TYP3284		X'01' X'02'	3278 Model 2A system console
		EQU	TYP3284	3284 printer 3286 printer
	TYP3287		TYP3284	3287 printer
	TYP3288		TYP3284	3288 printer
	TYP3138		TYP3277	3138 system console
	TYP3148		TYP3277	3148 system console
	TYP3158	EQU	TYP3277	3158 system console
				•
	FTROPRDR	EQU	X • 80 •	Operator identification card reader
	GT 1 G7754			
	CLASUR1	EQU	X • 20 •	Unit record input device class
	TYPRDR	EQU	X.80.	Card reader device
	TYP2501	EQU	X'81'	2501 card reader
	TYP2540R		X'82'	2540 card reader
	TYP3505	EQU	X'84'	3505 card reader
	TYP1442R		X 188 1	1442 card reader/punch
	TYP2520R		X'90'	2520 card reader/punch
	TYPTIMER	_	X 40	Timer device
	TYPTR	EQU	X • 20 •	Tape reader device
	TYP2495	EQU	X'21'	2495 magnetic tape cartridge reader
	TYP2671	EQU	X 1 22 1	2671 paper tape reader
	TYP1017	EQU	X'24'	1017 paper tape reader
	CLASURO	EQU	X*10*	Unit record output device class
		- 2 -		onle roote output device orange
	TYPPUN	EQU	X . 80 .	Card punch device
	TYP2540P	-	X 182 1	2540 card punch
	TYP3525	EQU	X 94 1	3525 card punch
	TYP1442P		X 1881	1442 card punch
	TYP2520P	-	X 90 1	2520 card punch
	TYPPRT	EQU	X 40 1	Printer type device
	TYP1403	EQU	X 1 4 1 1	1403 printer
	TYP3211	EQU	X1421	3211 printer
	TYP3203 TYP1443	EQU EQU	X 43 4 X 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3203 printer (3211 and 1403)
	TIEIMAD	υVO	A 44	1443 printer

Appendix E. Data Areas and Control Block References

This appendix -- a listing of CP, CMS, and RSCS control blocks -- contains the following:

- Module references to data areas and control blocks.
- Information on how certain data areas or control blocks are created and released.

CP CONTROL BLOCK REFERENCES

CCHREC ACCTBLOK

Built by: DMKCCH Built by: DMKHVD

Released by: DMKHVD, DMKUSO Released by: DMKCCH, DMKIOE, DMKIOF

Referenced by: DMKACO, DMKCKP, DMKHVD, Referenced by: DMKCCH, DMKEIG, DMKSEV,

CCPARM

DMKSIX DMKSPL

ACNTBLOK

Built by: DMKNLD, DMKSNC Built by: DMKACO, DMKHVD, DMKWRM

Released by: DMKACO Released by: DMKNLD, DMKSNC

Referenced by: DMKACO, DMKCKP, DMKHVD, Referenced by: DMKNLD, DMKSNC

DMKJRL, DMKRSE, DMKWRM

ALOCBLOK CHXBLOK

Built by: DMKCPI, DMKVDC Built by: DMKDIA

Released by: DMKCPI, DMKVDC Released by: DMKVCA

Referenced by: DMKCPI, DMKMON, DMKPGT, Referenced by: DMKCFP, DMKCQG, DMKDIA,

DMKVCA, DMKVSI

DMKTDK, DMKVDC

BSCBLOK CHYBLOK

Built by: DMKRGB Built by: DMKDIA

Released by: DMKRGA Released by: DMKVCA

Referenced by: DMKBSC, DMKRGA, DMKRGB Referenced by: DMKDIA, DMKVCA

BUFFER CKPBLOK

by: DMKCFM, DMKCPI, DMKERM, Built by: DMKRNH

DMKGRF, DMKLNK, DMKLOG, DMKRGA, DMKRSP Released by: DMKRNH

Released by: DMKCFM, DMKCPI, DMKGRF, Referenced by: DMKRNH, DMKWRM

DMKINK, DMKRGA, DMKRSP

Referenced by: DMKALG, DMKCDM,

DMKCFM, DMKCFO, DMKCFS, DMKCPI, DMKCPS, DMKCSB, DMKCSO, DMKCSP, CONTASK DMKCSQ, DMKCST,

DMKCSU, DMKCSV, DMKEMA, DMKERM, DMKGRF, DMKNMT, DMKRGA, DMKGRT, DMKLNK, DMKMSG, by: DMKCNS, DMKGRF, DMKQCN,

DMKRND, DMKRSP, DMKSCN, DMKVMD, DMKWRM DMKRGA, DMKRGB, DMKRNH DMKUDU, DMKVDC,

Released by: N/A

Referenced by: DMKCNS, DMKGRF, DMKMON, DMKNES, DMKQCN, DMKRGA, DMKRGB, DMKRNH

```
CORTABLE
                                                          DMPKYREC
    Assembled in DMKSYS.
                                                              Built by: DMKDMP, DMKVMD
    Released by: N/A
                                                              Released by: DMKDMP, DMKVMD
    Referenced by: DMKACO, DMKATS, DMKBLD, DMKCCW, DMKCDS, DMKCFO, DMKCPI, DMKCPU,
                                                              Referenced by: DMKDMP, DMKVMD
    DMKCPV, DMKDGD, DMKDMP, DMKFRE, DMKMCC,
    DMKMCH, DMKMNI, DMKPAG, DMKPGS, DMKPSA,
    DMKPTR, DMKRPA, DMKUDR, DMKUDU, DMKUNT,
                                                          DMPTBREC
    DMKVMA
                                                              Built by: DMKDMP
                                                              Released by: DMKDMP
CPEXBLOK
                                                              Referenced by: DMKDMP
    Built by:
    DMKACO, DMKCDS, DMKCFM, DMKCPS, DMKCPV, DMKDIA, DMKGRF, DMKIOE, DMKIOF, DMKIOG,
    DMKIOS, DMKLOC, DMKMCC, DMKMCH, DMKMON,
                                                          ECBLOK
    DMKPGT, DMKPTR, DMKQCN, DMKRGA, DMKRGB,
    DMKRNH, DMKRPA, DMKRSP, DMKSPL, DMKSVC,
                                                              Built by: DMKBLD
    DMKUSO, DMKVCA, DMKVDC, DMKVDE, DMKVMA,
    DMKVMC
                                                              Released by: DMKCFO, DMKCFS, DMKUSO
    Released by: DMKCPS, DMKDSP, DMKIOF,
                                                              Referenced by: DMKBLD, DMKCDB,
                                                              DMKCDS, DMKCFG, DMKCFH, DMKCFP, DMKCFS,
    DMKMON, DMKPTR
                                                              DMKDSP, DMKEXT, DMKPRG, DMKPRV, DMKSCH,
                                                              DMKSVC, DMKTMR, DMKTRC, DMKTRD, DMKUSO, DMKVAT, DMKVMC
    Referenced by: DMKACO, DMKALG, DMKCCW,
   DMKCDS, DMKCFM, DMKCFO, DMKCFP, DMKCNS, DMKCPB, DMKCPS, DMKCPU, DMKCPV, DMKDGD, DMKDIA, DMKDSB, DMKDSP, DMKEXT, DMKFRE,
    DMKGIO, DMKGRF, DMKIOE, DMKIOF, DMKIOS,
    DMKLNK, DMKLOC, DMKMCC, DMKMCD, DMKMCH,
                                                          ERRBLOK
   DMKMCT, DMKMIA, DMKMID, DMKMNI, DMKMON, DMKPAG, DMKPGS, DMKPGT, DMKPRG, DMKPRV, DMKPSA, DMKPTR, DMKQCN, DMKRGA, DMKRGB, DMKRNH, DMKRPA, DMKRSP, DMKSPL, DMKSSS,
                                                              Built by: DMKIOE
                                                              Released by: DMKIOF
    DMKSTK, DMKSVC, DMKTAP, DMKTMR, DMKTRD,
    DMKUNT, DMKUSO, DMKVAT, DMKVCA, DMKVDA,
                                                              Referenced by: DMKIOE, DMKIOF
    DMKVDC, DMKVDE, DMKVMA, DMKVMC, DMKVSI,
    DMKVSP
                                                          IOBLOK
                                                                       by: DMKACO,
DDRREC
                                                                                          DMKCCW.
                                                              DMKCNS, DMKCPB, DMKCPI, DMKCPS, DMKCSO,
    Built by: DMKVER
                                                              DMKCSP, DMKCSU, DMKDGD, DMKDIA, DMKGIO,
                                                              DMKGRF, DMKHVC, DMKIOS, DMKNLD, DMKRGA, DMKRGB, DMKSPL, DMKTDK, DMKVCA, DMKVDC,
    Released by: DMKVER
                                                              DMKVDD, DMKVDE, DMKVDR, DMKVIO
    Referenced by: DMKVER
                                                              Released by: DMKCFP, DMKCNS, DMKCPB,
                                                              DMKCPI, DMKCPS, DMKCSO, DMKDAS, DMKDGD, DMKDIA, DMKGIO, DMKGRF, DMKHVC, DMKIOS, DMKMON, DMKNLD, DMKPAG, DMKRGA, DMKRGB,
DMPINREC
                                                              DMKRNH, DMKRSP, DMKSEP, DMKTDK, DMKVCA,
                                                              DMKVDC, DMKVDD, DMKVDE, DMKVIO
    Built by: DMKDMP, DMKVMD
                                                              Referenced by: DMKACO, DMKBSC, DMKCCH, DMKCCW, DMKCFP, DMKCNS, DMKCPB, DMKCPI, DMKCPS, DMKCSD, DMKCSD, DMKCSU,
    Released by: DMKDMP, DMKVMD
    Referenced by: DMKDMP, DMKVMD
```

DMKNLE, DMKPAG, DMKPGT,

DMKCSV, DMKDAS, DMKDGD, DMKDIA, DMKDIB, DMKDSB, DMKDSP, DMKGIO, DMKGRF, DMKHVC, DMKIOE, DMKIOG, DMKIOM, DMKMSW, DMKNLD, DMKMCC, DMKMNI, DMKMON, DMKMSW, DMKNLD,

DMKRGA, DMKRGB,

DMKRNH, DMKRSE, DMKRSP, DMKSEP, DMKSPL, MCRECORD

DMKSSS, DMKSTK, DMKTAP, DMKTCS, DMKTDK, DMKTRC, DMKTRD, DMKTRK, DMKUDR, DMKUNT, Built by: DMKMCH

DMKUSO, DMKVCA, DMKVDC, DMKVDD, DMKVDE, Released by: N/A

DMKVDR, DMKVIO, DMKVSI

Referenced by: DMKMCH

IOERBLOK

by: DMKBSC, DMKCCH, DMKDAS, <u>Built</u>

DMKDIA, DMKDIB, DMKIOE, DMKIOS, DMKRSE, DMKTAP, DMKVCA

Released by: DMKBSC, DMKCCH, DMKCCW,

DMKCFP, DMKCNS, DMKCPS, DMKDAS, DMKDGD, DMKDIA, DMKDIB, DMKGIO, DMKGRF, DMKIOE, DMKIOS, DMKMON, DMKNLD, DMKRGA, DMKRGB, DMKRNH, DMKRSE, DMKRSR, DMKTAP, DMKVIO

Referenced by: DMKBSC, DMKCCH, DMKCCW, DMKCFP, DMKCNS, DMKCPS, DMKDAS, DMKDGD,

DMKDIA, DMKDIB, DMKDSB, DMKEIG, DMKGIO, DMKGRF, DMKIOE, DMKIOF, DMKIOS, DMKMSW, DMKNLD, DMKNLE, DMKRGA, DMKRGB, DMKRNH, DMKRSE, DMKRSP, DMKSEV, DMKSIX, DMKTAP,

DMKTRK, DMKUNT, DMKVCA, DMKVDC, DMKVDE,

DMKVIO, DMKVSI

MDRREC

Built by: DMKVER

Released by: DMKVER

Referenced by: DMKIOF, DMKVER

MICBLOK

Built by: DMKCFS, DMKLOG

Released by: DMKCFS, DMKLOG, DMKUSO

Referenced by: DMKBLD, DMKCFS, DMKDSP, DMKLOG, DMKMCH, DMKPTR, DMKRPA, DMKTRA

IRMBLOK

Built by: DMKCFO, DMKCFS

Released by: DMKCFS, DMKIOE

Referenced by: DMKCFO, DMKIOE

MIHREC

Built by: DMKVER

Released by: DMKVER

Referenced by: DMKVER

JPSCBLOK

Assembled as part of DMKSYS

Referenced by: DMKALG, DMKJRL, DMKLNK,

DMKLOG

MNDEVLST

Built by: DMKENT

Released by: DMKENT

Referenced by: DMKENT

LOCKBLOK

Built by: DMKLOC

Released by: DMKLOC

Referenced by: DMKLOC

MNHDR

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MCHAREA

Built by: DMKIOG

Released by: N/A

Referenced by: DMKCCH, DMKCFO, DMKCPU,

DMKIOG, DMKMCH, DMKMCT

MNOOO

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

314 IBM VM/370 Data Areas and Control Block Logic

MN001

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN097

Built by: DMKMNI

Released by: DMKMON

Referenced by: DMKMNI

MN098

Built by: DMKMNI

Released by: DMKMON

Referenced by: DMKMNI

MN099

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN10x

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN20X

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN400

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN500

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN600

Built by: DMKMON, DMKMNI

Released by: DMKMON

Referenced by: DMKMNI, DMKMON

MN602

Built by: DMKENT

Released by: DMKENT

Referenced by: DMKENT

MN700

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MN802

Built by: DMKMON

Released by: DMKMON

Referenced by: DMKMON

MONCOM

Built by: DMKMCC

Released by: DMKMON

Referenced by: DMKCPS, DMKDMP, DMKENT, DMKMCC, DMKMCD, DMKMIA, DMKMNI, DMKMON

MSSCOM

Built by: DMKSSS

Released by: DMKLNK, DMKLOG, DMKSSS,

DMKVDA

Referenced by: DMKCPB, DMKDGD, DMKDSB, DMKLNK, DMKLOG, DMKMSS, DMKSSS, DMKVDA,

DMKVSI

PAGTABLE NCPTBL

Built by: DMKSNT Built by: DMKBLD

Released by: N/A Released by: DMKBLD, DMKPGS

Referenced by: DMKNLD, DMKSNC Referenced by: DMKATS, DMKBLD, DMKCFG, DMKCPU, DMKPGS, DMKPTR, DMKVAT, DMKVMA

NICBLOK

NPRTBL

Built by: DMKNLD

Released by: DMKNLD

Referenced by: DMKACO, DMKBLD, DMKCFT, DMKCKP, DMKCPI, DMKCQR, DMKDIA, DMKHVD,

DMKLOG, DMKNES, DMKNET, DMKNLD, DMKPSA,

DMKQCN, DMKRGA, DMKRGB, DMKRNH, DMKWRM

PSA

Built by: DMKSNT

Released by: N/A

Referenced by: DMKCKS, DMKCSO, DMKHVD,

DMKTCS, DMKWRM

OBRRECN (Long OBR)

Built by: DMKIOF

Released by: DMKIOF

Referenced by: DMKIOC, DMKIOF, DMKVER

OBRREC (Short OBR)

Built by: DMKIOF

Released by: DMKIOF

Referenced by: DMKIOF

OWNDLIST

Assembled into DMKSYS

Referenced by: DMKATS, DMKCKP, DMKCKS, DMKCPI, DMKCPU, DMKDRD, DMKPAG, DMKPGS,

DMKPGT, DMKPTR, DMKSPL, DMKUDR, DMKVDA,

DMKVDC, DMKWRM

PWDIBLOK

Built by: DMKJRL

Released by: DMKJRL

Referenced by: DMKJRL

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PGBLOK

Built by: DMKVAT

Released by: DMKCFP, DMKDSP

Referenced by: DMKCFP, DMKDSP, DMKVAT

Assembled as part of DMKSYS; part of CP

nucleus.

Referenced by: DMKACO, DMKALG, DMKAPI, DMKATS, DMKBLD, DMKBSC, DMKCCH, DMKCCW, DMKCDB, DMKCPD, DMKCFC, DMKCFD, DMKCFG, DMKCFD, DMKCFG, DMKCFP,

DMKCFS, DMKCFT, DMKCKP, DMKCKS, DMKCLK,

DMKCNS, DMKCPB, DMKCPI, DMKCPS, DMKCPU,

DMKCPV, DMKCQG, DMKCQH, DMKCQP, DMKCQR, DMKCQY, DMKCSB, DMKCSO, DMKCSP, DMKCSQ, DMKCST, DMKCSV, DMKCVT, DMKDAS,

DMKDEF, DMKDGD, DMKDIA, DMKDIB, DMKDMP,

DMKDRD, DMKDSB, DMKDSP, DMKEIG, DMKENT,

DMKERM, DMKEXT, DMKFMT, DMKFRE, DMKGIO,

DMKGRF, DMKGRT, DMKHVC, DMKHVD, DMKIOC, DMKIOE, DMKIOF, DMKIOG, DMKIOS, DMKISM, DMKJRL, DMKLOK, DMKLOC, DMKLOG, DMKLOH, DMKHCH, DMKMCT,

DMKMIA, DMKMID, DMKMNI, DMKMON, DMKMSG,

DMKMSW, DMKNES, DMKNET, DMKNLD, DMKNLE,

DMKPGT, DMKPRG,

DMKOPR, DMKPAG, DMKPGS, DMKPRV, DMKPSA, DMKPTR, DMKRGB, DMKRNH, DMKRPA, DMKQCN, DMKRGA, DMKRSE, DMKRSP,

DMKSAV, DMKSCH, DMKSCN, DMKSEP, DMKSEV,

DMKSIX, DMKSNC, DMKSPL, DMKSSP, DMKSSS,

DMKSTK, DMKSVC, DMKTAP, DMKTCS, DMKTDK, DMKTHI, DMKTMR, DMKTRA, DMKTRC, DMKTRD, DMKTRK, DMKTRM, DMKUDR, DMKUDU, DMKUNT, DMKUSO, DMKVAT, DMKVCA, DMKVCH, DMKVCN,

DMKVDA, DMKVDC, DMKVDD, DMKVDE, DMKVDR,

DMKVDS, DMKVER, DMKVIO, DMKVMA, DMKVMC,

DMKVMD, DMKVMI, DMKVSI, DMKVSP, DMKVSQ,

DMKWRM

RCHBLOK

Assembled into CP nucleus module DMKRIO

Released by: N/A

Referenced by: DMKCCH, DMKCFO, DMKCKP. DMKCPB, DMKCPI, DMKCPS, DMKCPV, DMKCQP, DMKIOG, DMKIOS, DMKDIA, DMKDSB, DMKENT, DMKMNI, DMKMON, DMKNES, DMKPRV, DMKSCN, DMKSSP, DMKSSS, DMKVCH, DMKVMT

RECBLOK

by: DMKCKS. DMKCPI. DMKPGT. DMKRSP, DMKVSP, DMKWRM

Released by: DMKPGT, DMKSPL, DMKUSO

Referenced by: DMKCKP, DMKCKS, DMKCPI. DMKDMP, DMKPGT, DMKRSP, DMKSPL, DMKVSP, DMKWRM

RECPAG

RCUBLOK

Assembled into CP nucleus module DMKRIO.

Released by: N/A

Referenced by: DMKCCH, DMKCCW, DMKCFO, DMKCKP, DMKCPB, DMKCPI, DMKCPS, DMKCPV, DMKENT, DMKGRF, DMKCQP, DMKDIA, DMKDSB, DMKIOC, DMKIOS, DMKMNI, DMKMON, DMKNES, DMKNLD, DMKPRV, DMKSCN, DMKSSP, DMKSSS, DMKVCH

Built by: DMKIOF, DMKIOG

Released by: DMKIOF, DMKIOG

Referenced by: DMKIOF, DMKIOG

RCWTASK

Built by: DMKCCW

Released by: DMKCCW, DMKUNT

Referenced by: DMKCCW, DMKCFP, DMKCPB, DMKHVC, DMKIOS, DMKISM, DMKTRD, DMKTRK, DMKUNT, DMKVDR

RSPLCTL

Built by: DMKRSP

Released by: DMKRSP

Referenced by: DMKCKP, DMKCQP, DMKCSO, DMKRSP, DMKSPL, DMKTCS

RDE V BLOK

Built by: Assembled into CP nucleus module DMKRIO

Released by: N/A

Referenced by: DMKACO, DMKATS, DMKBLD, DMKBSC, DMKCCH, DMKCCW, DMKCFC, DMKCFG, DMKCFH, DMKCFM, DMKCFO, DMKCFP, DMKCFT, DMKCKP, DMKCKS, DMKCNS, DMKCPB, DMKCPI, DMKCPS, DMKCPU, DMKCPV, DMKCQG, DMKCQP, DMKCQR, DMKCQY, DMKCSB, DMKCSO, DMKDAS, DMKDEF, DMKDGD, DMKDIA, DMKDSB, DMKDSP, DMKENT, DMKHVD, DMKIOC, DMKIOE, DMKDMP, DMKDRD, DMKGRF, DMKGRT, DMKIOF, DMKIOG, DMKIOS, DMKLNK, DMKLOG, DMKLOH, DMKMCC, DMKMNI, DMKMON, DMKMSW, DMKNES, DMKNET, DMKNLD, DMKNLE, DMKOPR, DMKPAG, DMKPGS, DMKPGT, DMKPRV, DMKPSA, DMKPTR, DMKQCN, DMKRGA, DMKRGB, DMKRNH, DMKSCN, DMKSEP, DMKSNC, DMKRSE, DMKRSP, DMKSSP, DMKSSS, DMKTAP, DMKTCS, DMKTDK, DMKTRK, DMKTRM, DMKUNT, DMKUSO, DMKVCH, DMKVCN, DMKVDA, DMKVDC, DMKVDD, DMKVDE, DMKVDR, DMKVDS, DMKVER, DMKVSI, DMKWRM

SAVEAREA

Built by: DMKCPI, DMKSVC

Released by: DMKSVC

Referenced by: DMKACO, DMKALG, DMKAPI, DMKATS, DMKBLD, DMKBSC, DMKCCH, DMKCCW, DMKCDB, DMKCDM, DMKCDS, DMKCFG, DMKCFH, DMKCFM, DMKCFS, DMKCFT, DMKCKS, DMKCFC, DMKCFD, DMKCFO, DMKCFP, DMKCLK, DMKCNS, DMKCPB, DMKCPS, DMKCPU, DMKCPV, DMKCQG, DMKCQH, DMKCQP, DMKCQR, DMKCQY, DMKCSB, DMKCSO, DMKCSP, DMKCSQ, DMKCST, DMKCSU, DMKCSV, DMKDAS, DMKDDR, DMKDEF, DMKDGD, DMKDIA, DMKDIB, DMKDIR, DMKEIG, DMKENT, DMKERM, DMKDRD, DMKDSB, DMKFMT, DMKGIO, DMKGRF, DMKGRT, DMKHVD, DMKIOC, DMKIOE, DMKIOF, DMKIOG, DMKIOS, DMKISM, DMKJRL, DMKMCC, DMKMCD, DMKLNK, DMKLOG, DMKLOH, DMKMCH, DMKMIA, DMKMID, DMKMNI, DMKMON, DMKMSG, DMKMSW, DMKNEM, DMKNLD, DMKNLE, DMKPGS, DMKNES, DMKNET, DMKPTR, DMKQCN, DMKRGA, DMKRGB, DMKRNH, DMKRPA, DMKRSE, DMKRSP, DMKSET, DMKSEV, DMKSIX, DMKSNC, DMKSPL, DMKSSP, DMKSSS, DMKSVC, DMKTAP, DMKTCS, DMKTDK, DMKTHI, DMKTRD, DMKTRK, DMKTRM, DMKUNT, DMKUSO, DMKVAT, DMKTRA, DMKTRC, DMKUDR, DMKUDU, DMKVCA, DMKVCH, DMKVDA, DMKVDC, DMKVDD, DMKVDE, DMKVDR, DMKVDS, DMKVER, DMKVMA, DMKVMC, DMKVSP, DMKWRM

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SAVTABLE

SPLINK

Assembled into CP pageable module DMKSNT

Built By: N/A

Released by: N/A

Released by: N/A

Referenced by: DMKCFG, DMKCFH,

Referenced by: DMKCKS, DMKCQH, DMKCSU, DMKDRD, DMKMIA, DMKRSP, DMKSPL, DMKTCS,

DMKVMD, DMKVSP, DMKVSQ

SDRBLOK

Built by: DMKIOF

SWPTABLE

Released by: DMKIOE

Built by: DMKBLD, DMKVMA

Referenced by: DMKIOE, DMKIOF

Released by: DMKBLD

Referenced by: DMKATS, DMKBLD, DMKCFG, DMKCPU, DMKPGS, DMKPTR, DMKVAT, DMKVMA

SEGTABLE

Built by: DMKBLD

SYSLOCS

Released by: DMKBLD

Assembled into CP nucleus module DMKSYS.

Referenced by: DMKATS, DMKBLD, DMKPGS, DMKVMA

Referenced by: DMKACO, DMKBLD, DMKCFO, DMKCFT, DMKCKP, DMKLOC, DMKLOG, DMKLOH, DMKUDR, DMKUDU, DMKUSO

SFBLOK

Built by: DMKCKS, DMKNLD. DMKSPL.

DMKVMD, DMKWRM

SYSTBL

Assembled into DMKSNT.

Released by: DMKCKS, DMKRSP, DMKSPL,

DMKUSO

Referenced by: DMKATS, DMKCFG, DMKCFH, DMKCPU

Referenced by: DMKCKP, DMKCKS, DMKCPI, DMKCQG, DMKCQR, DMKCSO, DMKCSP, DMKCSQ, DMKCST, DMKCSU, DMKCSV, DMKDMP, DMKDRD,

DMKMIA, DMKMNI, DMKNLE, DMKRSE, DMKRSP,

DMKSEP, DMKSPL, DMKTCS, DMKUSO, DMKVMD,

DMKVSP, DMKVSQ, DMKWRM

TNSREC

Built by: DMKIOF

Released by: DMKIOF

Referenced by: DMKIOF

SHOBLOK

Built by: DMKCSP, DMKWRM

Released by: DMKCSP

TREXT

Built by: DMKTRA

Referenced by: DMKCKS, DMKCQR, DMKCSQ,

DMKSPL, DMKWRM

Released by: DMKTRA, DMKTRC, DMKUSO

SHRTABLE

Referenced by: DMKCFM, DMKDSP, DMKPGS, DMKPRG, DMKPRV, DMKSVC, DMKTMR, DMKTRA,

DMKTRC, DMKTRD, DMKVIO

Built by: DMKCFG

Released by: DMKPGS, DMKVMA

Referenced by: DMKATS, DMKCFG,

DMKCPU, DMKPGS, DMKPTR, DMKVMA

TROBLOK VCHBLOK by: DMKBLD, DMKCFC, DMKCFS. Built by: DMKVDS DMKCPI, DMKGRF, DMKLOG, DMKMCC, DMKQCN, DMKRGA Released by: DMKUSO Released by: DMKCFM, DMKCFS, DMKDIA, Referenced by: DMKCFM, DMKCFP, DMKCKP, DMKCPB, DMKCPV, DMKCQG, DMKCSP, DMKCSU, DMKMCC, DMKLOG, DMKMON, DMKQCN, DMKRGA, DMKUSO DMKDEF, DMKDIA, DMKDSP, DMKCSV, DMKLNK, DMKLOG, DMKPRV, DMKSCN, DMKSPL, DMKSSS, Referenced by: DMKBLD, DMKCDS, DMKCFC, DMKCFM, DMKCFP, DMKCFS, DMKCPI, DMKCPU, DMKDIA, DMKDSP, DMKENT, DMKGRF, DMKLOG, DMKUSO, DMKVCH, DMKVCN, DMKVDA, DMKVDC, DMKVDD, DMKVDS, DMKVIO, DMKVSI, DMKVSP DMKMCC, DMKMID, DMKMNI, DMKMON, DMKPSA, DMKQCN, DMKRGA, DMKRGB, DMKSCH, DMKSSS, VCONCTL DMKTMR, DMKUSO Built by: DMKVDS Released by: DMKVDR UDBFBLOK Referenced by: DMKALG, DMKCFP, DMKGRF, Built by: DMKDEF, DMKHVD, DMKSPL DMKRGA, DMKVCN, DMKVDR Released by: DMKDEF, DMKHVD, DMKSPL Referenced by: DMKCFS, DMKDEF, DMKHVD, VCUBLOK DMKLNK, DMKLOG, DMKSPL, DMKSSS, DMKUDR, DMKUDU Built by: DMKVDS Released by: DMKUSO UDE VBLOK Referenced by: DMKCFM, DMKCFP, DMKCKP, DMKCPB, DMKCPV, DMKCQG, DMKCSP, DMKCSU, Built by: DMKCSP, DMKUDR DMKCSV, DMKDEF, DMKDIA, DMKDSP, DMKLOG, DMKNLD, DMKPRV, DMKSCN, DMKSPL, DMKSSS, DMKUSO, DMKVCH, DMKVCN, DMKVDA, DMKVDC, DMKVDD, DMKVDS, DMKVIO, DMKVSI, DMKVSP Released by: DMKCSP, DMKUDR Referenced by: DMKDEF, DMKDIR, DMKLNK, DMKLOG, DMKSCN, DMKUDR, DMKVDA, DMKVDS **VDEVBLOK** UDIRBLOK Built by: DMKLOG, DMKVDS Built by: DMKCSP Released by: DMKUSO Referenced by: DMKACO, DMKALG, DMKCCH, DMKCCW, DMKCFG, DMKCFH, DMKCFM, DMKCFP, DMKCKP, DMKCPS, DMKCPV, DMKCQG, Released by: DMKCSP Referenced by: DMKCFS, DMKCPI, DMKCSP, DMKDEF, DMKDIR, DMKHVD, DMKLNK, DMKLOG, DMKCQP, DMKCSB, DMKCSP, DMKCSQ, DMKCST, DMKSPL, DMKUDR, DMKUDU DMKCSU, DMKCSV, DMKDAS, DMKDEF, DMKDGD, DMKDIA, DMKDIB, DMKDRD, DMKDSP, DMKGIO, DMKGRF, DMKHVC, DMKHVD, DMKLOG, DMKNLD, DMKPRV, DMKSCN, DMKSPL, DMKSSS, DMKIOS, DMKLNK, DMKQCN, DMKRGA, DMKTHI, DMKTRC, UMACBLOK DMKTRD, DMKTRK, DMKUNT, DMKUSO, DMKVCA, DMKVCH, DMKVCN, DMKVDA, DMKVDC, DMKVDD, Built by: DMKDIR DMKVDR, DMKVDS, DMKVER, DMKVIO, DMKVSI, Released by: DMKDIR DMKVSP, DMKVSQ Referenced by: DMKCFS, DMKDEF, DMKDIR, DMKHVD, DMKLOG, DMKSPL, DMKUDR, DMKUDU

VFCBBLOK

Built by: DMKCFG, DMKCSO

Released by: DMKVDR

Referenced by: DMKCSB, DMKVSP

VMABLOK

Built by: DMKBLD, DMKCFG

Released by: DMKBLD, DMKPGS, DMKVMA

Referenced by: DMKATS, DMKCFG, DMKPGS,

DMKVMA

VMCPARM

Built by: Virtual machine user

Released by: Virtual machine user

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Referenced by: DMKVMC

VRRBLOK

Built by: DMKVDS

Released by: DMKVDR

Referenced by: DMKCCW, DMKCFP,

DMKGIO, DMKUNT, DMKVDS, DMKVSI

VSPLCTL

Built by: DMKDRD, DMKVSP

Released by: DMKVSP

Referenced by: DMKCKP, DMKCSP, DMKCSO.

DMKDRD, DMKSPL, DMKVSP, DMKVSQ

VSPXBLOK

Built by: DMKCST

Released by: DMKCST

Referenced by: DMKCKP, DMKCQG, DMKCSP.

DMKCST, DMKSPL, DMKVDR, DMKVDS

XINTBLOK

by: DMKCFP, DMKCPB. DMKDSP.

DMKGRF, DMKRGA, DMKSCH, DMKTMR

Released by: DMKCFP, DMKDSP, DMKSCH -

DMKTMR

Referenced by: DMKCFP, DMKCPB, DMKDSP,

DMKGRF, DMKRGA, DMKSCH, DMKTMR, DMKVMC

XOBR3211

Built by: DMKRSE

Released by: DMKIOE

Referenced by: DMKIOF, DMKRSE

VMBLOK

Built by: DMKBLD

Released by: DMKBLD, DMKDIA, DMKLOG,

DMKUSO

Referenced by: DMKACO, DMKALG, DMKAPI, DMKATS, DMKBLD, DMKCCH, DMKCCW, DMKCDB, DMKCDM, DMKCFG, DMKCFD, DMKCFG, DMKCFF, DMKCFF, DMKCFF, DMKCFS, DMKCFT, DMKCKP, DMKCKS, DMKCNS, DMKCPB,

DMKCPI, DMKCPS, DMKCPU, DMKCPV, DMKCQG, DMKCQH, DMKCQP, DMKCQR, DMKCQY, DMKCSB, DMKCSO, DMKCSP, DMKCSQ, DMKCST, DMKCSU, DMKCSV, DMKDAS, DMKDEF, DMKDGD, DMKDIA,

DMKDIB, DMKDRD, DMKDSP, DMKENT, DMKERM, DMKEXT, DMKFRE, DMKGIO, DMKGRF, DMKGRT,

DMKHVC, DMKHVD, DMKIOE, DMKIOF, DMKIOG, DMKIOS, DMKISM, DMKJRI, DMKLNK, DMKLOG, DMKLOH, DMKLOK, DMKMCC, DMKMCD, DMKMCH, DMKMCT, DMKMIA, DMKMID, DMKMNI, DMKMON, DMKMCD, DMKMCH, DMKMNI, DMKMON,

DMKMSG, DMKMSW, DMKNES, DMKNET, DMKNLD, DMKNLE, DMKPAG, DMKPER, DMKPGS, DMKPGT,

DMKPRG, DMKPRV, DMKPSA, DMKPTR, DMKQCN, DMKRGA, DMKRGB, DMKRNH, DMKRPA, DMKRSE, DMKRSP, DMKSCH, DMKSCN, DMKSEP, DMKSNC, DMKSPL, DMKSSS, DMKSTK, DMKSVC, DMKTCS,

DMKTHI, DMKTMR, DMKTRA, DMKTRC, DMKTRD,

DMKTRK, DMKUDR, DMKUDU, DMKUNT, DMKUSO, DMKVAT, DMKVCA, DMKVCH, DMKVCN, DMKVDA, DMKVDC, DMKVDD, DMKVDR, DMKVIO, DMKVMA, DMKVMC, DMKVSP, DMKVSQ, DMKWRM DMKVDS, DMKVER, DMKVMD, DMKVSI,

VMCBLOK

Built by: DMKVMC

Released by: DMKVMC

Referenced by: DMKDSP, DMKVMC

VMCMHDR

Built by: N/A

Released by: N/A

Referenced by: DMKMSG

CMS CONTROL BLOCK REFERENCES

ABTAB

Assembled as part of DMSNUC.

Referenced by: DMSBAB, DMSDOS, DMSITP

BBOX

Assembled as part of DMSNUC.

Referenced by: No CMS references. block is used by the DOS supervisor.

ABWSECT

Assembled as part of DMSNUC

Referenced by: DMSABN, DMSDBG, DMSFRE, DMSITI, DMSITP, DMSITS

BGCOM

Assembled as part of DMSNUC.

Referenced by: DMSAMS, DMSASN, DMSBAB, DMSBOP, DMSCLS, DMSDLB, DMSDLK, DMSDMP, DMSDOS, DMSDSV, DMSFCH, DMSFET, DMSINS, DMSITP, DMSLLU, DMSOPL, DMSOPT, DMSPRV, DMSQRY, DMSRRV, DMSSET, DMSSMN, DMSSRV,

DMSSTG, DMSVSR, DMSXCP

ADTSECT

Assembled as part of DMSNUC.

DMSTRK, DMSUPD, DMSXCP

Referenced by: DMSABN, DMSACC, DMSACF, DMSACM, DMSALU, DMSAMS, DMSARE, DMSARN, DMSARX, DMSASM, DMSASN, DMSAUD, DMSBOP, DMSBWR, DMSCMP, DMSCPY, DMSDIO, DMSDLB, DMSDLK, DMSDSK, DMSDSL, DMSEDX, DMSERS, DMSEXC, DMSEXT, DMSFNS, DMSINS, DMSLAD, DMSLAF, DMSLDS, DMSLFS, DMSLKD, DMSFOR, DMSIFC, DMSLBM, DMSLBT, DMSLLU, DMSLST, DMSMVE, DMSPUN, DMSQRY, DMSRNM, DMSROS, DMSSET, DMSSOP, DMSSTT, DMSTPE, DMSTQQ,

CMSTAXE

Built by: DMSSVT

Released by: DMSSVT

Referenced by: DMSCIT, DMSITE, DMSITI,

DMSSVT

AFTSECT

Assembled as part of DMSNUC: also created and released dynamically by DMSLAF.

Referenced by: DMSBRD, DMSBWR, DMSCPY, DMSERS, DMSFNS, DMSINT, DMSLAF, DMSPNT, DMSRNM, DMSSOP, DMSSTT, DMSTPE

CVTSECT

Assembled as part of DMSNUC.

Referenced by: DMSINS

DBGSECT

Assembled as part of DMSNUC.

Referenced by: DMSDBD, DMSDBG, DMSITE.

ANCHSECT

Built by: DMSSTG

Released by: Not released

Referenced by: DMSDOS, DMSSTG

DEVSECT

DEVTAB

Assembled as part of DMSNUC.

Referenced by: DMSTIO, DMSTPE

BATLSECT

Assembled as part of DMSBTP.

Referenced by: DMSCIO, DMSITE, DMSPIO

Assembled as part of DMSNUC.

Referenced by: DMSASN, DMSDBD, DMSEDI.

DMSEDX, DMSINI, DMSLLU, DMSSVT

DIOSECT

FCBSECT

Assembled as part of DMSNUC.

Referenced by: DMSACM, DMSDIO, DMSFNS,

DMSTTT

Built by: DMSFLD

Released by: DMSFLD, DMSABN

DMSCCB

Built by: N/A

Released by: N/A

Referenced by: DMSXCP

Referenced by: DMSALU, DMSARN, DMSARX, DMSASM, DMSDSL, DMSFCH, DMSFLD, DMSLDS, DMSMVE, DMSQRY, DMSROS, DMSSAB, DMSSBD, DMSSBS, DMSSCT, DMSSEB, DMSSOP, DMSSQS, DMSSVN, DMSSVT,

FCHTAB

Assembled as part of DMSNUC.

Referenced by: DMSDOS, DMSFET

DOSSECT

Built by: DMSDLB

Released by: DMSDLB, DMSABN

Referenced by: DMSAMS, DMSBOP, DMSCLS, DMSDLB, DMSDLK, DMSDSV, DMSOPL, DMSQRY, DMSRRV, DMSSRV, DMSSVT, DMSVIP, DMSXCP

FICL

Assembled as part of DMSNUC.

Referenced by: No CMS references. This block is used by the DOS supervisor.

EDCB

Built by: DMSEDX

Released by: DMSEDI

Referenced by: DMSEDC, DMSEDI, DMSEDX,

DMSGIO, DMSSCR

FRDSECT

Assembled as part of DMSNUC.

Referenced by: DMSFRE, DMSSET

ERDSECT

Assembled as part of DMSNUC.

Referenced by: DMSERR

FSCBD

Built by: N/A

Released by: N/A

Referenced by: DMSBRD, DMSDLK, DMSIFC, DMSZAP, and user programs that access the CMS file system

EXTSECT

Assembled as part of DMSNUC.

Referenced by: DMSINS, DMSINT, DMSIOW, DMSITE, DMSQRY, DMSSET, DMSSTG, DMSSVN,

DMSSVT

FSTD

Built by: N/A

Released by: N/A

Referenced by: DMSCPY, DMSEDX, DMSEXC, DMSFNS, DMSGND, DMSNCP, DMSSOP, DMSTPE

EXTUAREA

Assembled as part of DMSNUC.

Released by: N/A

No CMS references.

322 IBM VM/370 Data Areas and Control Block Logic

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FSTSECT
                                                      LUBPR
   Built by: DMSACF
                                                          Assembled as part of DMSNUC
   Released by: DMSALU
                                                          Referenced by: DMSDLK, DMSDSV
   Referenced by: DMSACF, DMSAMS, DMSARN,
   DMSARX, DMSASM, DMSBOP, DMSBRD, DMSBWR, DMSCPY, DMSDLK, DMSDSK, DMSDSL, DMSERS, DMSFNS, DMSGND, DMSIFC, DMSLAF, DMSLBM,
                                                      T.IIRTAR
                                DMSDSL, DMSERS,
DMSLAF, DMSLBM,
                                                          Assembled as part of DMSNUC.
                                DMSSTT, DMSTPE,
   DMSLKD, DMSMVE, DMSRNM,
   DMSUPD, DMSXCP, DMSZAP
                                                          Referenced by: DMSAMS, DMSBOP, DMSCLS,
                                                          DMSDLB, DMSFCH, DMSLLU, DMSOPL, DMSPRV,
                                                          DMSRRV, DMSSET, DMSSRV, DMSXCP
FVSECT
   Assembled as part of DMSNUC.
                                                      NICL
   Referenced by: DMSABN, DMSACC, DMSACF, DMSACM, DMSALU, DMSAUD, DMSBRD, DMSBTB,
                                                          Assembled as part of DMSNUC.
   DMSACM, DMSALU, DMSAUD, DMSBTP, DMSBWR, DMSCIT,
                                DMSCRD, DMSCWR,
                                                          Referenced by:
                                                                            DMSBOP, DMSCLS, DMSDLB,
   DMSCWT, DMSDIO, DMSDOS,
                                DMSDSK, DMSERS,
                                                          DMSLLU, DMSXCP
   DMSFNS, DMSINT, DMSITE, DMSITI, DMSITP,
   DMSITS, DMSLAD, DMSLFS, DMSMOD, DMSPNT,
   DMSQRY, DMSRNM, DMSSLN, DMSSOP, DMSSTT, DMSTPE, DMSTQQ
                                                      NUCON
                                                          Assembled as part of DMSNUC.
IHADECB
                                                          Referenced by: DMSABN, DMSACC,
                                                                                                DMSACF.
                                                          DMSACM, DMSALU, DMSAMS, DMSARE, DMSARN,
                                                         DMSARX, DMSASM, DMSASN, DMSBOP, DMSBRD, DMSBTB,
                                                                                      DMSAUD, DMSBAB,
DMSBTP, DMSBWR,
   Built by: N/A
                                                          DMSCAT, DMSCIO, DMSCIT, DMSCLS, DMSCMP,
   Released by: N/A
                                                          DMSCPF, DMSCPY, DMSCRD, DMSCWR, DMSCWT,
   Referenced by:
                      DMSSBD, DMSSBS, DMSSCT,
                                                          DMSDBD, DMSDBG, DMSDIO, DMSDLB, DMSDLK,
                                                          DMSDMP, DMSDOS, DMSDSK, DMSDSL, DMSDSV,
   DMSSEB, DMSSVT
                                                          DMSEDI, DMSEDX, DMSERR, DMSERS, DMSEXC, DMSEXT, DMSFCH, DMSFET, DMSFLD, DMSFNS,
                                                          DMSFOR, DMSFRE, DMSGIO, DMSGLB, DMSGND,
IOSECT
                                                          DMSHDI, DMSHDS, DMSIFC, DMSINA, DMSINI,
                                                          DMSINM, DMSINS, DMSINT, DMSIOW, DMSITE,
                                                         DMSITI, DMSITP, DMSITS, DMSLAD, DMSLAF, DMSLBM, DMSLBT, DMSLDR, DMSLDS, DMSLFS, DMSLGT, DMSLIB, DMSLIO, DMSLKD, DMSLLU,
   Assembled as part of DMSNUC.
   Referenced by: DMSABN, DMSHDI, DMSINT,
   DMSTTT
                                                          DMSLOA, DMSLSB, DMSLST, DMSLSY, DMSMDP,
                                                          DMSMOD, DMSMVE, DMSNCP, DMSOLD, DMSOPL,
                                                          DMSOPT, DMSOR1, DMSOVR,
                                                                                      DMSOVS, DMSPIO,
                                                          DMSPNT, DMSPRT, DMSPRV,
                                                                                       DMSPUN, DMSQRY,
                                                         DMSRDC, DMSRNE, DMSRNM, DMSSAB, DMSSBS, DMSSCN,
KEYSECT
                                                                                       DMSROS, DMSRRV,
                                                                                       DMSSCT, DMSSEB,
                                                         DMSSET, DMSSLN, DMSSMN,
                                                                                       DMSSOP, DMSSQS,
   Built by: DMSSVT
                                                         DMSSRT, DMSSRV, DMSSSK,
                                                                                       DMSSTG, DMSSTT,
                                                         DMSSVN, DMSSVT, DMSSYN,
   Released by: DMSSVT
                                                                                       DMSTIO, DMSTPD,
                                                         DMSTPE, DMSTQQ, DMSTYP, DMSUPD, DMSVIB, DMSVIP, DMSVSR, DMSXCP, DMSZAP
   Referenced by: DMSSBD, DMSSVT
                                                      OPSECT
LDRST
                                                         Assembled as part of DMSNUC.
   Built by: DMSLDR
                                                          Referenced by: DMSABN, DMSARX, DMSASM,
   Released by: DMSLDR
                                                          DMSCPY, DMSCRD, DMSCWR, DMSCWT, DMSDBG,
                                                          DMSEXC, DMSEXT, DMSINS, DMSINT, DMSROS,
                                                          DMSSBD, DMSSBS, DMSSCT,
   Referenced by: DMSLDR, DMSLGT, DMSLIB,
                                                                                      DMSSEB, DMSSOP,
```

DMSLIO, DMSLSB, DMSOLD

DMSSQS, DMSSVN, DMSSVT

OSFST

PUBADR

Built by: DMSROS

Assembled as part of DMSNUC.

Released by: DMSALU

Referenced by: DMSBOP, DMSCLS, DMSDLK.

DMSDSV, DMSLLU, DMSPRV, DMSXCP

Referenced by: DMSABN, DMSALU, DMSBOP, DMSDLK, DMSFCH, DMSMVE, DMSROS, DMSRRV,

DMSSOP, DMSSRV, DMSSTT

PUBOWNER

Assembled as part of DMSNUC OVSECT

DMSBOP, DMSCLS, DMSDLK, Referenced by:

DMSLLU, DMSXCP

Released by: N/A

Built by: N/A

SSAVE

Referenced by: DMSITS, DMSOVR

Built by: DMSITS

PCTAB Released by: DMSITS

Assembled as part of DMSNUC.

Referenced by: DMSBAB, DMSDOS, DMSITP

Referenced by: DMSABN, DMSACC, DMSBAB, DMSDBG, DMSDLB, DMSDOS, DMSERR, DMSFLD,
DMSFRE, DMSIFC, DMSITP, DMSITS, DMSLDR,
DMSOVS, DMSSAB, DMSSLN, DMSSMN, DMSSOP,
DMSSTG, DMSSVN, DMSSVT, DMSVIP, DMSXCP

PDSSECT

Built by: DMSSVT

SUBSECT

Released by: DMSSVT

Assembled as part of DMSNUC.

Referenced by: DMSSTG, DMSSVT

Referenced By: DMSABN, DMSINM, DMSINT

PGMSECT

SVCSECT

Assembled as part of DMSNUC.

Assembled as part of DMSNUC.

Referenced by: DMSITP, DMSSAB, DMSSLN,

DMSSTG, DMSSVT

Referenced by: DMSCIT, DMSFRE, DMSHDS, DMSINT, DMSITE, DMSITS, DMSLAD, DMSLFS, DMSOVR, DMSOVS, DMSSLN

PIBADR

SVEARA

Assembled as part of DMSNUC.

Assembled as part of DMSNUC.

Referenced by: DMSBAB, DMSDOS, DMSITP

Referenced by: DMSBAB, DMSDOS, DMSITP

PIB2TAB

SYSCOM

Assembled as part of DMSNUC.

Assembled as part of DMSNUC.

Referenced by: DMSBAB, DMSDOS, DMSVSR

Referenced by: DMSBAB, DMSBOP, DMSDOS, DMSFET, DMSITP, DMSQRY, DMSSTG, DMSSYN

SYSNAMES

Assembled as part of DMSNUC.

Referenced by: DMSAMS, DMSBOP, DMSBPT, DMSDOS, DMSEDX, DMSEXC, DMSINS, DMSINT, DMSITS, DMSQRY, DMSSET, DMSVIB, DMSVSR

USAVE

Built by: N/A

Released by: N/A

Referenced by: DMSITS

TSOBLKS

Assembled as part of DMSNUC.

Referenced by: DMSSET

USERSECT

Assembled as part of DMSNUC.

No CMS references.

RSCS CONTROL BLOCK REFERENCES

ASYNE

Built by: DMTASY

Released by: DMTASY, DMTASK

Referenced by: DMTASY, DMTEXT, DMTIOM,

DMTSIG

BUFDSECT

Built by: DMTSML

Released by: DMTSML

Referenced by: DMTSML

COMDSECT

Built by: DMTCOM

Released by: N/A

Referenced by: DMTAXS, DMTCMX, DMTMGX,

DMTNPT, DMTREX, DMTSML

DEVTABLE

Built by: DMTNPT

Released by: DMTNPT

Referenced by: DMTNPT

FREEE

Built by: DMTQRQ

Released by: DMTQRQ

Referenced by: DMTASK, DMTINI, DMTQRQ

GIVE

Built by: DMTSML, DMTNPT, DMTAXS, DMTREX

Released by: N/A

Referenced by: DMTSML, DMTNPT, DMTAXS,

DMTREX

GIVEE

Built by: DMTGIV

Released by: DMTAKE, DMTASK

Referenced by: DMTAKE, DMTASK, DMTGIV

IOE

Built by: DMTIOM

Released by: DMTIOM

Referenced by: DMTASK, DMTIOM, DMTREX

IOTABLE

<u>Built</u> by: DMTIOM, DMTCRE, DMTNPT.

DMTREX, DMTSML

Released by: DMTNPT, DMTSML

Referenced by: DMTAXS, DMTCMX, DMTINI, DMTIOM, DMTREX, DMTSML

LINKTABL

Assembled into DMTSYS at. system

generation; also built by DMTCMX.

Released by: DMTCMX

Referenced by: DMTASY, DMTAXS, DMTCMX,

DMTCOM, DMTCRE, DMTEXT, DMTLAX, DMTMGX,

DMTNPT, DMTREX, DMTSML

REQBLOCK

Built by: DMTNPT

Released by: DMINPT

Referenced by: DMTNPT

ROUTE

Assembled in DMTSYS

Released by:

Referenced by: DMTAXS

TAKE

Built by: DMTSML, DMTNPT, DMTAXS, DMTREX

Released by: N/A

Referenced by: DMTSML, DMTNPT, DMTAXS,

DMTREX

SVECTORS

Assembled into DMTVEC at system generation; resides in the RSCS nucleus.

Referenced by: DMTAKE, DMTASK, DMTASY, DMTAXS, DMTCMX, DMTCOM, DMTCRE, DMTDSP, DMTEXT, DMTGIV, DMTINI, DMTIOM, DMTLAX, DMTMGX, DMTNPT, DMTQRQ, DMTREX, DMTSIG, DMTSML, DMTSTO, DMTSVC, DMTWAT TANKDSEC

Built by: DMTSML

Released by: DMTSML

Referenced by: DMTSML

TAG

Built by: DMTAXS

Released by: DMTAXS

Referenced by: DMTAXS, DMTCMX, DMTNPT,

DMTSML

TAREA

Assembled into each task module.

Released by: DMTASK

Referenced by: DMTAKE, DMTASK, DMTASY, DMTCOM, DMTCRE, DMTDSP, DMTEXT, DMTGIV, DMTIOM, DMTREX, DMTSIG, DMTSTO, DMTSVC

TAGAREA

Built by: DMTAXS

Released by: N/A

Referenced by: DMTAXS

TASKE

Built by: DMTASK

Released by: DMTASK

Referenced by: DMTAKE, DMTASK, DMTASY, DMTAXS, DMTCOM, DMTDSP, DMTEXT, DMTGIV, DMTINI, DMTIOM, DMTNPT, DMTPST, DMTREX, DMTSIG, DMTSML, DMTSTO, DMTSVC, DMTWAT

TCTDSECT

Built by: DMTSML

Released by: DMTSML

Referenced by: DMTSML